WALLACES' FARMER and Iowa Homestead

IOWA'S LEADING FARM NEWSPAPER

SEPTEMBER 17, 1955

Corn crop is spotty

Drouth damage to corn varies from community to community—and from farm to farm. Different soil types and spotty rains of July and early August made the difference. At left: John Dreesen of Sac county, Iowa, inspects his badly damaged crop—hoping it would yield 15 bushels per acre. A few miles away, Walt Nietzke (right) also of Sac county, was guessing that his corn might make 60 to 75 bushels.

Test bulls by feeding calves . . 14

How atoms work for farmers . . 31

How old is your family doctor? 49

Spending plan for your family? 76

THIS 49½c STORM WINDOW

protects your farm and family all winter!

New Trans-Kleer Storm Window Goes On in 5 Minutes Without Tools, Hooks, Screws or Nails

10.8 Sq. Ft. Window Costs only 49½c

Used by Army in Iceland and Alaska—Now Available to Public—Ideal for Farms!

NOW . . . Storm Windows need not cost you up to $14.00 apiece. American industry has developed a lightweight flexible product that enables you to seal out wintry blasts for only 49½¢ a window! Imagine it! For pennies per window you can insulate EVERY ROOM in your home! This new material was developed by the Gary plant of a billion-dollar American manufacturing firm—for use by the U.S. Government during the last war. It looks like glass, yet can't peel off, never chips, shatters or rattles. Actually flexible like rubber. Has a tensile strength of over one ton per square inch. Crystal clear, not milky or yellowish like some plastic materials. Weighs less than 1/10th of the lightest glass windows ever developed. Even a large window comes to less than 8 oz. Not affected by snow, sleet, rain or dampness—because it's 100% waterproof. Won't crack even at 53 degrees BELOW FREEZING! Use and re-use it YEAR AFTER YEAR for winter comfort and protection.

LOW-COST HEALTH PROTECTION

You can hardly see this TRANS-KLEER storm window—it's wonderfully transparent, yet it protects your loved ones from winter's frigid blasts. And each window costs only 49½¢ each!

Sensational Discovery Used By Army To Fight Cold

One of the big problems of the last war was how to defend our troops and protect equipment against the ravages of Arctic winters. One of the world's greatest manufacturing companies was ordered to build a special plant and soon millions of yards of this new material was moving out to Alaska, the Aleutians, Iceland and Greenland. It was not available to the public because every inch went to protect our men, vehicles, planes and weapons. Finally, it was released to the public and ever since the demand has been greater than the supply! The Gary plant of famous REYNOLDS METALS COMPANY is working round-the-clock trying to supply it!

Use Year After Year—No Upkeep Cost!

At winter's end just fold away your Trans-Kleer like cloth for use next year. You can air the room anytime, too—lift the Adheso border to let in fresh air, then press back and it's sealed tight again! Cleans easily with a damp rag. It's no wonder so many home owners, hospitals, churches and public buildings use this tried and tested REYNOLDS product! TRANS-KLEER comes in kits 36 inches by 432 inches and costs you only $4.95 complete with Adheso border! That is enough for 10 windows—each measuring 10.8 sq. ft.—just 49½c each! In all you receive 108 SQUARE FEET for only $4.95! Good GLASS storm windows cost from $7.95 to $16.00—for ten you'd have to pay $79 to $160.00 With this remarkable REYNOLDS product you not only save a terrific amount in the purchase price, you also cut down enormously on your fuel bills!

Install Trans-Kleer Windows in 5 Minutes

Trans-Kleer storm windows require no nails, hooks, screws or tools. No back-breaking toil or broken glass to contend with. Cut off required amount, trim to fit the inside of your window, large or small, square, round, rectangular—it makes no difference! Then press on the special Adheso border supplied and your storm window is firmly in place. Simple, easy—a child can install them! And Trans-Kleer windows, because of the LOW CONDUCTIVITY development give you real winter protection, actually keep wintry blasts out of your home.

2,000,000 Windows Sold!

For years, demand for Trans-Kleer has outstripped the supply. Lucky buyers of the first windows told their neighbors and the word spread. Last year alone, over 2,000,000 were sold, yet thousands of folks were disappointed when the supply ran out. Advertising had to be curtailed and our huge supply was exhausted earlier than anticipated. There will be another wild scramble for them this year. Production has been planned for 2,500,000 windows this year—but even this huge total might not be enough unless you act FAST!

Test In Your Home AT OUR RISK!

Here's your chance to get Trans-Kleer on a HOME TRIAL BASIS. You can't lose a single penny. Mail the coupon below and a 36 by 432-inch kit—108 SQUARE FEET—will be shipped you immediately, complete with Adheso border. Deposit only $4.95 plus postage with the mailman. Try TWO windows inside any room. Test them—see for yourself how they seal out drafts. Compare the temperature—any 25c thermometer will do—compare with any other room in your home. See the difference—feel the difference! Then if you're not convinced they're every bit as effective as any storm window—why, just keep the TWO windows and return the balance and get your $4.95 back at once!

Avoid Disappointment—Order Now!

Millions of folks in the U. S. and Canada are reading this same ad in hundreds of magazines and newspapers. Despite enormous production facilities, the REYNOLDS ALUMINUM people can turn out so much and no more! Don't wait until it's too late! Play safe! Rush the coupon NOW! If you wish to save postage cost, send check, cash or m. o. for $4.95 and the windows will be shipped postage free.

STRETCHES WITHOUT BREAKING!

This amazing storm window stretches without breaking! Has tensile strength of over one ton per square inch! Push it with your foot—it stretches—then springs back undamaged! Developed for Armed Forces in last war. Installs quickly, easily inside windows of all sizes. Made by world-famous REYNOLDS METALS COMPANY.

ADVICE TO READERS

To Obtain Best Results From Storm Windows

All types of Storm Windows, glass, thermopane, plastic can save many dollars in fuel bills if used right. Follow these 5 rules for best results: 1.—Check all leaks. 2.—Make sure windows fit tight. 3.—Caulk aluminum type before installing. 4.—Store wooden frame type in dry place to prevent warping. 5.—Replace all cracked panes at once. Trans-Kleer ends storage, caulking problems, shattered glass, panes to replace, leaks to seal! No hard toil to put on or remove! Put on quick INSIDE regular window with new, improved ADHESO border. Lift Adheso border to let stale air out. Press back and you have perfect sealed-in insulation again! (See picture) Freezing weather is coming. Play safe! Order your TRANS-KLEER windows NOW! MAIL COUPON TODAY!

THORESEN'S, Dept. 435-K-47, **352 Fourth Ave., New York 10, N. Y.**

RUSH FOR FREE HOME TRIAL!

THORESEN'S, Dept. 435-K-47,
352 Fourth Ave., New York 10, N. Y.

RUSH . . . kits of Trans-Kleer measuring 108 sq. ft. each, enough for 10 windows averaging 10.8 sq. ft. each. Include improved Adheso Sealing Border and easy picture instructions at no extra cost. I will try 2 windows and if I'm not satisfied for any reason, I'll return the remainder within one week for FULL REFUND of my money. I will keep the 2 windows free.

☐ Payment enclosed. Send Prepaid.
☐ Send C.O.D. plus postage.

CHECK AMOUNT DESIRED
☐ 1 KIT (108 sq. ft.) for 10 windows—$4.95
☐ 2 KITS (216 sq. ft.) for 20 windows—$8.95

Name.....

Address.....

City.....State.....

Better PULL on every farm job all year round!

—and it costs so little!

NEW, IMPROVED
SURE-GRIP D-15
only **$43.35*** (9-24 — 4-ply rating)

*plus tax and recappable tire.
Other sizes also attractively low-priced at most Goodyear dealers'. Prices subject to change.

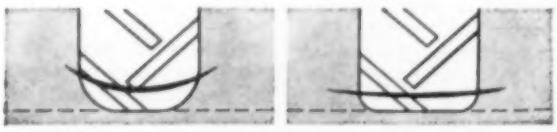
THERE are many good reasons why, year after year, more farmers surveyed prefer Goodyear tractor tires than all other makes put together. *Here are just a few of them:*

O-P-E-N C-E-N-T-E-R, made famous by Goodyear, gives cleaner, firmer bite to *straight* lugs—helps prevent tread-clogging.

DEEPER, FLATTER TREAD WITH STRAIGHT LUGS for greater lug-to-soil contact, tremendously powerful traction, smoother roll in field or on road—and longer, more even wear.

TOUGHER RUBBER for longer wear—helps lugs retain sharp *bite-in* edges.

STRONGER BODY means longer tire life—helps keep tires fit for more re-lugs!



FLATTER TREADS of SURE-GRIP D-15 grip more soil—mean still more powerful traction, more even wear in field or on road.

Don't you agree that when you can get a genuine Goodyear tire with all those timesaving, gas-saving, moneysaving features — at such a low price — it simply doesn't pay to shop around or take chances?

Then why not make it your business to see this great tractor tire — the SURE-GRIP D-15—at your helpful Goodyear dealer's.

Goodyear, Farm Tire Dept., Akron 16, Ohio

Sure-Grip—T. M. The Goodyear Tire & Rubber Company, Akron, Ohio

Look for this sign; there's a Goodyear dealer near you.

SAVE ON FRONT TRACTOR TIRES, TOO!
NEW FARM RIB
Three long-wearing ribs for easy steering — wide tread for extra flotation — tougher, rubber compounds for long wear — husky beads for greatest-ever durability!

ONLY **$12.40*** (4.00-15—4-ply rating)
*plus tax and recappable tire.
Prices subject to change.

GOODYEAR

MORE FARMERS PREFER GOODYEAR TRACTOR TIRES THAN ALL OTHER MAKES *PUT TOGETHER*

WALLACES' FARMER AND IOWA HOMESTEAD, September 17, 1955 (Vol. 80, No. 18). Published first and third Saturdays of each month by the James M. Pierce Corporation, Des Moines, Iowa. Subscription price, one year for one dollar. Entered as second-class matter October 19, 1929, at the post office in Des Moines, Iowa, under the act of March 3, 1879. Copyright, 1955, by the James M. Pierce Corporation.

Cold winter winds blow harder out in the country. That's why it takes an exceptional furnace to keep your farm home warm and comfortable during the fury of mid-west winters. Green Colonial is the one furnace built especially to do this all important job.

Every Green Colonial furnace, whether it's one of the many oil-fired, gas-fired or coal burning models, is built heavier, stronger and more rugged throughout.

When you heat your farm home with a Green Colonial furnace you enjoy:

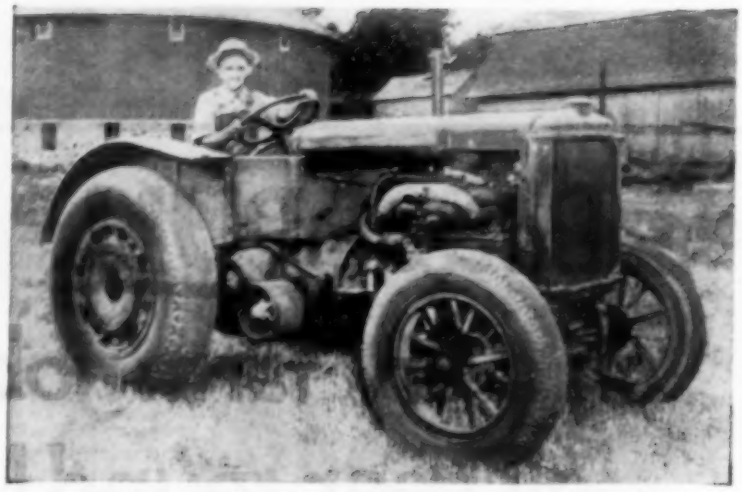
- ★ **Fuel Savings up to 25%**
- ★ **Tailored-to-fit installation, for clean, even heat in every room**
- ★ **Heavier construction, giving up to 12 extra years of trouble-free service**

Contact your local Green Colonial dealer or write for new illustrated literature.

Convenient Payment Plans
Install NOW — Pay Later

GREEN COLONIAL HEATING & COOLING

Green Colonial Furnace Company *Des Moines, Iowa*



Remember when you saw the first rubber-tired farm tractor? This tractor was the first ever equipped with low pressure tires and was used on a Wisconsin farm from 1932 to 1946. It was on display at the Centennial of Farm Mechanization at Michigan State University last month.

INSIDE STUFF

HOW MANY 100-year-old family farms do we have in Iowa? At the Wisconsin state fair, representatives of 122 such farms got together at Milwaukee.

FOLKS BRANDED cattle in Dubuque county, Iowa, in 1846. Walter Callohn stopped in at our booth at the Iowa fair to report that he still has the branding iron his folks used.

HIS GREAT-GRANDMOTHER and her nine boys came from Ireland in 1846. They started with a sod house. Five generations have lived on the same farm.

DROUTH DISTRICTS this year can buy fairly cheap feed from nearby areas that got rain. Free corn is still likely to sell at around a dollar in some places in Iowa.

A YOUNG FARM WOMAN in southwestern Iowa writes me that she and her husband wonder if they can hold on another year. Dropping hog prices and drouth have discouraged them.

THERE IS A LOT of difference between a 60-bushel crop you turn into hogs at $22 and a 20-bushel crop you turn into hogs at $15.

COMMERCIAL credit is still going up. There has been an eight percent increase in installment buying while consumer income was only going up four percent.

MOST of this installment buying is in cities, but farmers do some of it too. And there is more borrowing of all kinds in the country than a year ago.

COPIES of our Centennial issue are being sent to friends all the way from New York to California, and from Germany to Japan.

I LIKED the Farm Bureau's idea of using voting machines in their booth at the Iowa fair. One question, on which visitors voted, asked how far farm folks had to go to get mail.

THERE WERE 148 who said they got their mail at the farm entrance. But 124 said they had to go a quarter of a mile or more to the mail box.

THE ARMY is willing to go out of the bakery business if commercial bakers will put six percent of dried milk in army bread. But bakers are balking. I hope the army stands pat.

WHEN THE BOYS are home, mother often puts twice that much milk into bread. The army should use at least six percent.

A FARM WOMAN from Linn county, Iowa, tells us that her Farm Bureau neighbors are much irritated about the New York Times story on Cadillacs on Iowa farms. She says she is driving a 1946 Ford.

FARMERS ALONG the Missouri, Mississippi and Des Moines know how to sympathize with farm victims of eastern floods. And even the drouth sufferers wouldn't trade.

—DONALD R. MURPHY.

WALLACES' FARMER AND IOWA HOMESTEAD
"GOOD FARMING, CLEAR THINKING, RIGHT LIVING"
(Volume 80—Number 18)
DANTE M. PIERCE, Publisher, 1920-1955
RICHARD S. PIERCE, Publisher
Published first and third Saturday of each month, at 1912 Grand Avenue, Des Moines, Iowa. Subscription price, postpaid, $1 for one year. Canada and foreign countries, $1.75 for one year.
Editors: Arthur T. Thompson, Donald R. Murphy, Homer Hush, Leon E. Thompson, David E. Bryant, J. Raymond Franklin, Alvin F. Bull; Zoe Murphy, Home Department.
Editorial Service: Lloyd Kline, Richard Pommerehn.

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Entered as second-class matter, October 19, 1929, at the post office at Des Moines, Iowa, under the act of March 3, 1879.

It's got to be sold!

Meat must be moved fast . . . At the Peak of Freshness

When your livestock is ready for market, you can't do much waiting. You can't always hold for a better market or for a time when chores are light and things are just right.

Likewise, the meat packer has somewhat the same problem. Fresh carcass beef, pork, lamb and veal are highly perishable. Like anything perishable, this meat loses its bloom if not moved quickly to retailers and consumers. Fresh . . . that's the way the consumers – your customers and ours – demand their meat. So, meat packers must work on a fast moving schedule – a swift meat plant-to-store operation. This alert action means a higher return for you and for us – because regardless of market conditions meat sells best at the peak of freshness.

Week after week, regardless of the amount of livestock marketed, regardless of the season of the year . . . whatever volume of meat is produced . . . it can't be held . . . it has to be sold! When livestock and meat supplies increase substantially, it means more meat to be sold. Under these conditions it may be necessary to make price concessions in order to induce retailers and other meat outlets to buy more.

But why not freeze carcass meat when supplies are heavy? Once carcasses and wholesale cuts are frozen, they usually sell for less.

The big job of processing, distributing and selling meat runs on a fast schedule. The "why" of this fast trip for meat lies right on the plate at the consumer's table. What Mrs. Homemaker wants, Mrs. Homemaker gets. That's Swift's job – to move meat from your livestock to the retailers exactly the way consumers want it – inviting, fresh and tasty. That's why they come back to the store for more. This builds a steadier demand and expanded markets for your livestock. That's why IT HAS TO BE SOLD!

HOW MUCH IS STORED?

Government freezer storage figures show:

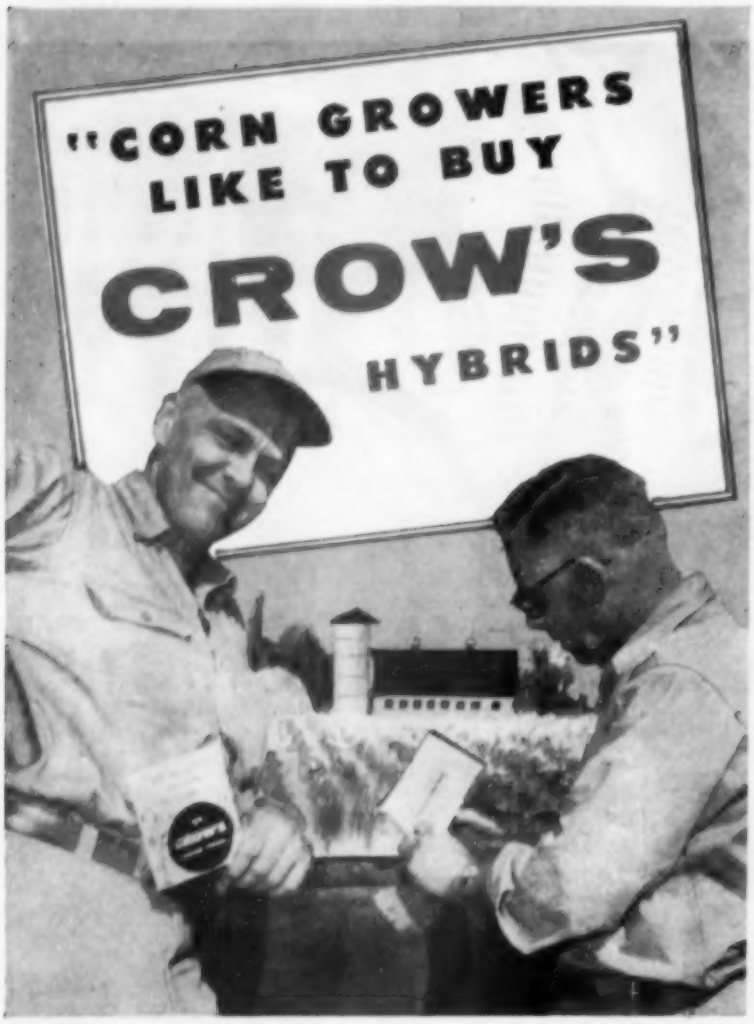
Peak storage of beef . . . . . 2% of annual production
Peak storage of lamb and mutton . . 3% of annual production
Peak storage of pork . . . . . 8-9% of annual production

These small amounts of meat in commercial storage mean only about a 10 to 14 day supply for the nation.

Tom Glaze

AGRICULTURAL RESEARCH DEPARTMENT
SWIFT & COMPANY
UNION STOCK YARDS • CHICAGO

Swift
1855 CENTENNIAL 1955
TO SERVE YOUR FARM AND FAMILY BETTER



"1,000 Bushels from me This Year . . . not bad, Eh?"

"As a Crow's dealer, I find selling Crow's Hybrids sweet business. Boy, these hybrids sell fast when folks can see how much more money they make for the farmer. You can't beat Crow's Hybrids for growing big yields of high quality corn.

"And, where my customers' soil needs a boost, I offer Crow's Corn Growing Program. This Program can help any corn grower grow more profitable corn per acre. Many of my customers are growing 100 bushel corn yields this year with Crow's Program and Crow's Hybrids."

J. B. Walton
Mendota, Illinois

You don't have to move to grow 100 bushel corn yields. Place an order with your nearest Crow's dealer NOW for Crow's Hybrids to plant in 1956. Without extra cost to you, you can then have Crow's service analyze your soil. Crow's agronomists will then send you treatment recommendations to produce 100 bushels of corn per acre.

All Crow's Hybrids are Film-Coated for dependable seed protection in poor growing weather.

SEND FOR CROW'S NEW FREE BOOK
"How To Average 100 Bushel Corn Yields."

CROW'S HYBRID CORN COMPANY
MILFORD, ILLINOIS AND NEVADA, IOWA
World's largest producers of single cross seed corn

MAIL COUPON OR CARD FOR CROW'S FREE CATALOG

CROW'S HYBRID CORN COMPANY
Dept. W., Milford, Illinois
SEND CATALOG and "100 BU. CORN YIELDS"
Name
Address R.F.D.
( ) Check here if you would like to sell Crow's Hybrids

Behind The News

Get queries on hog prices

Politicians of both parties worried about four percent farm price drop

What can be done about falling farm prices? That question persists in Washington. Various Washington reactions to the question are described here by the editor.

DECLINING hog prices are bringing a lot of queries to the U. S. Department of Agriculture. "What do you plan to do," it is asked, "if hog prices dip sharply later in the year?"

At present, the Department has no plans. Assistant Secretary of Agriculture, Earl L. Butz, who is in charge of marketing activities, says he is not convinced that there will be a big drop in hog prices.

Butz doesn't expect hogs to go below $14 per 100 pounds in Chicago, except for an occasional day when receipts are especially large.

He concedes, however, that his optimism is not shared by some people in the hog industry. Some expect prices to go to $13. And even a $14 price is considered a very big drop by many, since hog prices were over $20 a year ago.

* * * *

The hog price situation is only one point of concern in Washington. Politicians of both parties are awake to the fact that there really is a serious farm problem.

The four percent decline in average farm prices during the last two months has alarmed them. And they see further declines in the heavy harvesting and marketing seasons just ahead.

Republican leaders are frankly worried. There's a lot of head-shaking as to whether the flexible price support plan will give the answer to price problems.

Commenting on the situation, Senator Andrew F. Schoeppel, Kansas Republican, said he believes there needs to be some revisions in the flexible support program. He didn't outline what they should be. The Kansan was a supporter of the flexible plan.

* * * *

At the same time, a new Democratic committee appointed to work on the farm problem is headed by Claude Wickard of Indiana. Another member is Charles F. Brannan.

Both of these men are former secretaries of agriculture. And they have been identified with high level supports and production payments as a means of price supports.

There are a considerable number of Democrats who like the flexible plan, however. They include another former secretary of agriculture, Clinton P. Anderson of New Mexico. But this group does not control the Democratic committee on farm problems.

* * * *

Only words on the farm situation to come from the administration recently are those of Secretary of Agriculture Benson. He was speaking to a farm gathering at Bloomington, Ill.

"Very frankly," he said, "this administration is not content with the general level of farm prices today or with the present income of our farm people. We will seek earnestly, energetically and constantly to do everything that is fair, right and economically sound to improve this situation."

Benson did not say, however, what new steps, if any, would be taken to improve the situation. He clearly indicated tho that he still rigidly opposes high supports.

"In our determination to take constructive action, we must avoid the pitfalls of unrealistic programs which dry up markets and work against the long-term interests of farmers themselves," he said.

These are the arguments he has used against high supports when campaigning for the flexible system.

Any big move on the part of the administration to improve the farm price situation is more likely to be in the marketing—or disposal—field than in the price support field.

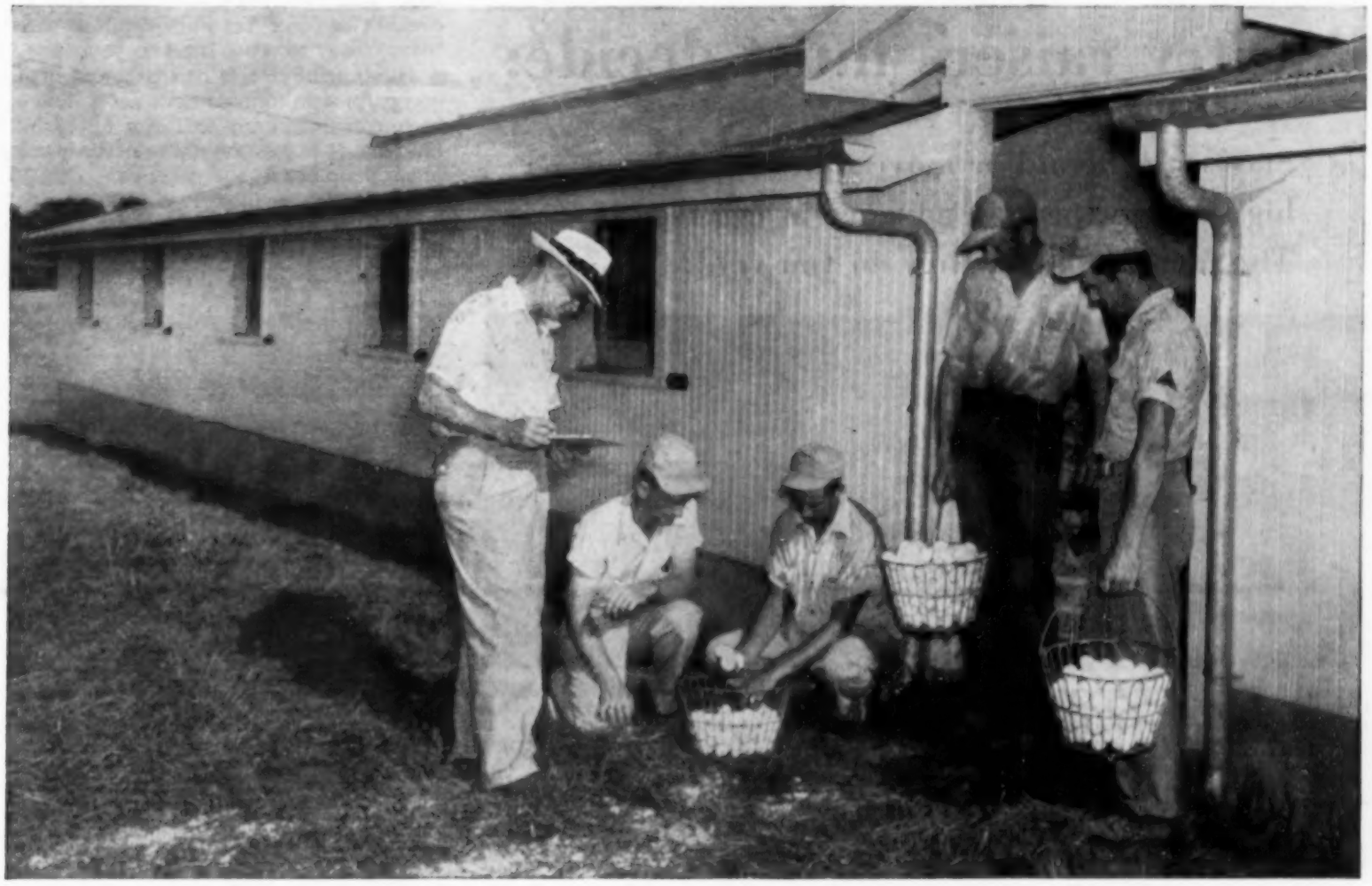
* * * *

Meanwhile the American Farm Bureau Federation is drafting possible recommendations for government action in case of a sharp price dip.

Export programs will get special emphasis by Bureau leaders. They will urge that special efforts be made to sell lard and cheaper cuts of pork abroad. They propose using the plan which authorizes the government to accept foreign currencies in payment.

"Sure it smokes! What else do you expect of a jet engine?"

New hope seen for thousands of poultry raisers:



How many eggs this time? Excitement ran high at the Research Center as eggs were gathered and counted at the various laying houses at Pleasant Hill. Researchers had gone the big step beyond high energy in the development of their completely new egg formula. Feeding tests showed it was paying-off—in a big way! And here is what came out of all this research:

Announcing Nutrena's New

Fifty Grand Egg Formula

Gets the most eggs on the least feed of any in Nutrena's 35-year history

James C. North

"Most important advance in egg feeds we've ever introduced," says . . .

James C. North
President
Nutrena Mills, Inc.

"Here it is—the startling new Fifty-Grand Egg Formula. It offers more benefits for the flock owner than even Nutrena ever dreamed possible!

"You may have seen or heard about some great Nutrena Feeds in the past but this one tops them all.

"Fifty-Grand is built around the new balanced energy/protein principle. It is so new, only a few whispers have leaked out about it. It's the step beyond a high-energy feed.

"But wait—maybe you haven't yet heard about high-energy feed. The high-energy idea in egg feed is quite new, too. In this new concept of egg feeds you'll come across a whole new group of words and ideas that may sound strange. But then, who ever heard of antibiotics or stilbestrol until several years ago?

"On the next page you'll see the whole exciting story behind the development of Fifty-Grand, the new high energy/protein egg formula. You'll find enough facts and figures to make you an expert on the subject. And most important, you'll see the difference between the old and the new and what it might mean to your laying flock.

"I sincerely urge you to compare whatever you are now feeding with Fifty-Grand. The challenge it offers the profit-minded poultry raiser can't be ignored.

"Our mills are humming—the production lines are running 'full steam ahead.' This precision-built product is tested and proved and it's ready for you now. The decision is up to you."

Turn page for complete details.

It's too big to ignore

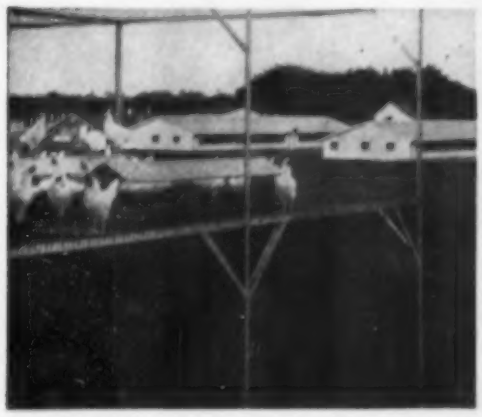
Poultry raisers must decide:

Stay with the old or move up to this new high energy/protein advance in egg feed? The facts are here. How do you vote?

The wheels of science turned amazingly swift to bring you this great new egg feed. Just two years ago, some said it couldn't be done. Yet Fifty-Grand is here today, ready to prove itself on your farm.

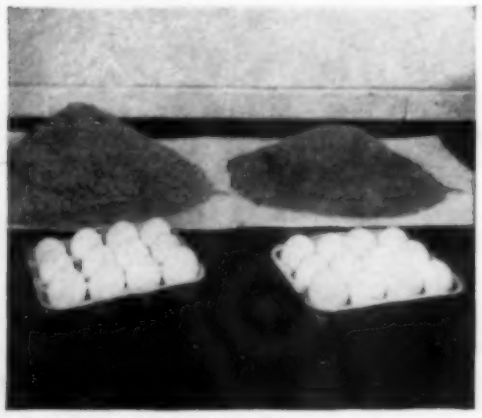
The benefits of this new balanced high energy/protein formula have never before been available in any feed ever tested by Nutrena. It is possible you've never heard of anything like it.

When you see how it compares with present-day low-energy feeds, you may find yourself at a crossroads. Which way will you go?



Testing high levels of energy and nutrition in Fifty-Grand was done at Nutrena Research Center, Pleasant Hill, Missouri. See laying houses in background.

Jim Hamilton, Product Development Manager, set up feeding tests. Made daily checks on feed and water used, eggs produced and amount of droppings.



Dozen eggs on almost a pound less feed. That was one of the big differences in high and low energy test rations used to develop new Fifty-Grand Egg Formula.

High-energy versus low-energy? How much protein? Here is what scientists discovered

The birth of a great new egg feed

Research Center tests on high energy/protein rations show

- **12.3% more eggs per bird**
- **8 to 15% less feed per bird**
- **¾ lb. less feed per dozen eggs**
- **45% less droppings**

compared to conventional low-energy test rations in 6-month period.*

How to get more eggs on less feed—that was the big problem before researchers at the Nutrena Research Center in Pleasant Hill, Missouri.

They discovered how to crack this big profit barrier after extensive testing of high-energy versus low-energy rations with various levels of protein, vitamins and minerals.

The result is a completely different Nutrena egg formula called Fifty-Grand. It's built around Nutrena's new balanced energy/protein principle—the step beyond high-energy.

It is so different that new equipment had to be installed just to make it—so different, it takes a special bag to hold it—so powerful that it is backed up with the most unusual guarantee on the market.

Started with high-energy

The effect of high-energy in a laying mash was well known by Nutrena researchers as they shaped the mold for Fifty-Grand. (As you step-up the energy content of a ration with Calories, down goes the feed needed to produce a dozen eggs.)

First they wanted to see just how much energy they could pack into a feed—then, how much less feed was needed to produce a dozen eggs, in comparison with a typical low-energy ration.

*By a low-energy ration, we mean one that contains around 1100 Calories of *metabolizable* energy per pound. That's the energy in feed that a bird can use for egg production, maintenance and growth.

By a high-energy ration we mean one that contains at least 1350 Calories of metabolizable energy per pound of feed.

Tests were set up with rations running from low to high energy content and here is what happened.

Calories per lb. of feed	Pounds of feed per doz. eggs
1098	5.24
1280	4.53
1315	4.43
1396	4.32
1420	3.85

There was a steady drop in feed needed per dozen eggs as Calories were increased. Over 1⅕ lb. difference between the highest and lowest energy rations.

Feed per bird dropped off sharply, too. And there was a big reduction in amount of droppings per bird. But Nutrena still wasn't satisfied.

Working with 16% protein rations, the researchers did not get a big enough boost in rate of production from just the addition of Calories to the ration.

What was wrong?

Apparently, birds ate only enough of the high-energy ration to satisfy their energy needs and then stopped eating. This accounts for the lower feed used and, in part, for the improved droppings situation.

But when they cut their feed consumption, they cut their nutritional intake. Birds on 16% protein high-energy feed weren't getting enough nutrition to maintain size of eggs—nor enough to show the big increase in production that was wanted.

High-energy—high-nutrition clicks

In the same 6-month tests, there were other groups of birds on high-energy, high-nutrition test rations. Protein was boosted to 18% and vitamins and minerals were at high levels.

continued on next page

Here was a big improvement! Everything seemed to fit—high-energy, 18% protein and high nutrition "nicked", like hybrid strains of hogs or corn.

Birds ate a little more of the 18% rations than the 16% rations. But feed per dozen eggs was still very low and there was a big boost in rate of production!

See how birds on 18% rations compared with those on 16% rations at both low and high levels of energy:

More eggs per bird (5½ to 11½ months of age)	LOW ENERGY	HIGH ENERGY
16% protein	106.57	109.29
But with higher protein rations		
18% protein	109.47	119.6

What a jump in production! Thirteen more eggs per bird, going from 16% low-energy to 18% high-energy.

And that's not all. This high-energy, high-protein ration produced bigger eggs:

Heavier dozen (5½ to 11½ months of age)	LOW ENERGY	HIGH ENERGY
16% protein	23.03 ozs.	22.81 ozs.
But with higher protein rations		
18% protein	22.08 ozs.	23.8 ozs.

This was interesting. Note that the egg weight per dozen went down on the 16% high-energy ration. But it was up nicely on the 18% high-energy rations.

Now see what happened to cage-bird droppings in this same 4-way comparison:

Less droppings (5½ to 11½ months of age)	LOW ENERGY	HIGH ENERGY
16% protein	2.50	1.00
But with higher protein rations		
18% protein	2.70	1.36

Biggest piles of droppings were given a 3 rating; the smallest a 1 rating. Lowest figures mean the fewest droppings.

Protein tended to increase droppings slightly while high-energy greatly reduced them. The combination of high-protein and high-energy resulted in a very significant reduction—45% less droppings than from birds on 16% low-energy ration.

And the droppings were much drier and coned-up better.

Here's another big advantage that came out of the high-energy, high-protein formula:

Weight gain per bird (5½ to 11½ months of age)	LOW ENERGY	HIGH ENERGY
16% protein	.03	.39
But with higher protein rations		
18% protein	.22	.98

Again the 18% high-energy test rations were way out in front—almost a pound more gain than birds on 16% low-energy.

These figures are on a good strain of Leghorns that were still growing as they came into production.

What did the extra weight do? Disregarding the various rations fed—

the fastest gaining birds in the test laid more eggs per bird; they laid bigger eggs and they used much less feed per dozen eggs than the slowest gaining birds.

With this wealth of information on the effects of high energy and protein and high levels of vitamins and minerals, researchers could clearly see which way to go with Fifty-Grand Egg Formula.

Standout features of Fifty Grand:

The new Fifty-Grand Egg Formula was developed out of the balanced energy/protein principle discovered in all this testing.

High energy by itself isn't enough. High protein isn't enough. But the two in dynamic balance with each other and backed up with extra vitamins and minerals—there's the combination!

And it works equally well for the 3 Fifty-Grand feeding programs: Fifty-Grand 18% Complete Egg Ration, Fifty-Grand 27% Egg Feed or Fifty-Grand Cage Egg Ration.

1400 Calories

When fed as directed, Fifty-Grand is guaranteed to supply each pound of total ration with a minimum of 1400 Calories of metabolizable energy.

Animal fat added

Nutrena uses a stabilized prime tallow to get such a high Calorie or energy level in Fifty-Grand. 5% is added to both the Complete and the Cage Egg feeds. And 10% is added to the Fifty-Grand 27% Egg Feed. Total fat content is guaranteed not less than 7% in each pound of total ration when fed as directed.

Fiber cut down

Chickens can't digest much of the fiber content of feed. It is largely wasted in the droppings. Fiber is also low in energy.

For these reasons, Nutrena has kept the fiber content as low as possible in these high-efficiency feeds. Fiber content is guaranteed not more than 4% in the Complete and Cage feeds and not more than 4% in the total ration where Fifty-Grand 27% Egg Feed is fed as directed.

You won't find oats, bran, wheat middlings or shorts in any of the Fifty-Grand feeds. These fibrous, lower-energy ingredients were removed to make room for high levels of nutrition and added animal fat.

Boosted nutrition

Both Fifty-Grand Complete Egg Ration and Fifty-Grand Cage Egg Ration contain 18% protein plus high levels of vitamins and minerals. Fifty-Grand 27% Egg Feed supplies the total ration with 18% protein and the same high levels of vitamins and minerals when fed as directed.

Because Fifty-Grand is highly concentrated, each pound is designed to do a much bigger job than even our best previous egg feeds. Certain key ingredients have been given a big boost.

Riboflavin—up 82%
Pantothenic Acid—up 41%
Niacin—up 57%
Energy, protein, vitamins, minerals—everything in a powerful new balance—new from the ground up!

You can begin to see why Nutrena dares to make the powerful guarantee below.

If your present egg feed has 4% or less fat and 6% or more fiber, Nutrena guarantees you either

50 More Eggs Per 100 lbs. Total Ration or Cash Instead with Fifty Grand

If you are now feeding a ration containing 4% or less fat and 6% or more fiber and fulfill the terms and conditions below, Nutrena will guarantee either that Fifty-Grand will produce 50 more eggs per 100 lbs. of total ration or that Nutrena will pay you the difference in cash at the rate of 2½ cents for each egg you fall short of that amount during the test:

For example:

If you actually get *no* increase in efficiency, you will receive a cash payment of $1.25 (50 x 2½) for every 100 lbs. of total ration. If you feed Fifty-Grand Complete Egg Ration or Fifty-Grand Cage Egg Ration this would amount to $25 per ton of feed used.

If you feed Fifty-Grand 27% Egg Feed, this would amount to about $50 per ton of Fifty-Grand fed since it makes up only half of the total ration.

Here's what to do:

1. Register for the guarantee with your Nutrena dealer and complete and leave with him an official registration form.

2. Purchase 10 lbs. of Fifty-Grand Complete Egg Ration or Fifty-Grand Cage Egg Ration per bird, or 5 lbs. of Fifty-Grand 27% Egg Feed per bird.

3. Either split your flock into two lots of equal size and during the test period feed one of the lots a ration containing 4% or less fat and 6% or more fiber and feed the other lot Fifty-Grand. Or you can feed your entire flock a ration containing 4% or less fat and 6% or more fiber for two weeks. Keep an accurate record of feed consumption and egg production and then switch the entire flock to Fifty-Grand.

4. Follow the Fifty-Grand feeding and management plan exactly as outlined. Keep a careful record of feed consumption and egg production on forms that will be supplied by your Nutrena dealer until the test order of Fifty-Grand is entirely consumed.

5. If you claim guarantee payment, you must certify all records of feed consumption and egg production submitted to your Nutrena dealer. Claims for guarantee payment must be submitted to your Nutrena dealer within one week after the test order has been consumed.

6. Your flock fed Fifty-Grand must be entirely free from molt, or any other factor, other than feed, generally recognized as influencing egg production and layers must be at least equal in size, age, quality and

continued on next page

production capacity to the flock fed the ration containing 4% or less fat and 6% or more fiber.

7. If requested, you must permit inspection of your flocks by Nutrena during the test period and following a claim for guarantee payment.

8. No test may begin after January 1, 1956.

Nutrena urges you to try Fifty-Grand on this guarantee offer. What better way can you find out what this new concept of feeding can mean for your flock!

Fifty-Grand has new texture

Fifty-Grand is different from low-energy test rations in appearance as well as performance! Its new appearance is described by feed men as "silky," like flax. Its high-energy animal fat content gives Fifty-Grand a new density and body.

It's almost a new form of feed, quite different from what we usually think of as mash. Each particle of Fifty-Grand is saturated with high-energy fat . . . it gives the feed a beautiful sheen.

It has a compact look and feel to it. Hens get condensed energy-rich, nutrition-rich food value in every bite of the new Fifty-Grand mash form.

There is no need to crumblize any of the new Fifty-Grand Egg Feeds. Crumblizing is still important for most poultry feeds. But for a feed like Fifty-Grand, it is no longer necessary.

There is a Fifty-Grand Program to fit your needs

The new Fifty-Grand line provides three high-efficiency feeding programs to fit your management plan.

1. Fifty-Grand 18% Complete Egg Ration

For real convenience in managing your flock, get Fifty-Grand Complete Egg Ration. It is complete—nothing else is needed but water. Eliminates the fuss and bother of buying and feeding grain, wet mash, supplemental pellets, grit or oyster shell. Leave it before birds at all times.

2. Fifty-Grand 27% Egg Feed

If you have corn or milo, get the Fifty-Grand Egg Feed with 27% protein. Feed it like you would a regular 20% feed, not like the old 27% grain balancer. Feed this feed 50-50 with your grain in separate hoppers. It has heavy amounts of important ingredients so that it still supplies the total ration with these new high levels of nutrition, even when fed 50-50 with corn or milo.

Do not feed oyster shell, buttermilk, whey, pellets, oats, or any other feed except corn, milo or Nutrena Scratch Grains and grit. (With Fifty-Grand you need NO OATS. Oats are inefficient because they are low in energy and contain much hard-to-digest fiber.)

3. Fifty-Grand Cage Egg Ration

If you are a cage operator, get Fifty-Grand Cage Egg Ration. It is a complete feed—nothing else is needed but water. Droppings cone up well even in hot weather. Supplies the same new high levels of key ingredients known to be necessary for sustained high production from cage layers. Your records will quickly point up the high efficiency of this new feed.

Check the feed tags. How does your present feed

Compare with Nutrena Fifty Grand

FIFTY-GRAND COMPLETE EGG RATION	
Crude Protein..not less than	18.0%
Crude Fat.....not less than	7.0
Crude Fiber....not more than	4.0
Nitrogen Free Extract.....not less than	50.0
Calcium (Ca)..Min. 2.2%, Max.	2.6
Phosphorus (P) not less than	.8
Iodine (I).....not less than	.0005
Salt (NaCl)...Min. .25%, Max.	.5

See dealer for full guaranteed analysis.

FIFTY-GRAND 27% EGG FEED	
Crude Protein..not less than	27.0%
Crude Fat.....not less than	11.5
Crude Fiber....not more than	5.0
Nitrogen Free Extract.....not less than	34.0
Calcium (Ca)..Min. 4.5%, Max.	5.0
Phosphorus (P) not less than	1.6
Iodine (I).....not less than	.001
Salt (NaCl)....Min. .5%, Max.	.9

See dealer for full guaranteed analysis.

FIFTY-GRAND CAGE EGG RATION	
Crude Protein..not less than	18.0%
Crude Fat.....not less than	7.0
Crude Fiber...not more than	4.0
Nitrogen Free Extract.....not less than	50.0
Calcium (Ca)..Min. 2.2%, Max.	2.6
Phosphorus (P) not less than	1.0
Iodine (I).....not less than	.0005
Salt (NaCl)...Min. .2%, Max.	.4

See dealer for full guaranteed analysis.

Check fat and fiber closely. While both fat and fiber make up only a small percentage of the feed, they have an important bearing on its energy value.

Fat, is a source of almost pure energy in egg feeds and it is the added animal fat that gives Fifty-Grand much of its high-energy rating. That's why Fifty-Grand can guarantee not less than 7% fat in the total ration.

Fiber, on the other hand, is largely wasted in egg feed. It contributes very little energy or nutrition to the ration and most of it is eliminated by the bird. According to Nutrena's standards, any feed with more than 6% fiber is probably in the low-energy class. Fifty-Grand when fed as directed is guaranteed to give the total ration no more than 4% fiber.

Ask yourself these questions about the feed you are now using and see how it stacks up against a true high-efficiency feed like Fifty-Grand.

What level of fat does it contain? . . . How does it compare in energy? Does it contain added animal fat? . . . Is the fiber content too high? . . . How do your results compare?

Do you accept the challenge?

Nutrena has jumped quite a few hurdles, broken through quite a few barriers to bring you this new high-efficiency egg feed. We can't help feeling that we are at an important crossroads, with one road leading to greatly improved egg production efficiency.

Will you take this bright new road towards highly efficient egg production?

If you read the signs along the way, you'll know that this is the route of the profit-minded flock owner.

We sincerely hope you'll lift your sights to the new opportunities ahead.

And, remember, if you are now feeding a ration with 4% or less fat and 6% or more fiber, Nutrena guarantees either that a test order of Fifty-Grand will produce 50 more eggs per 100 lbs. of total ration or pays you cash instead.

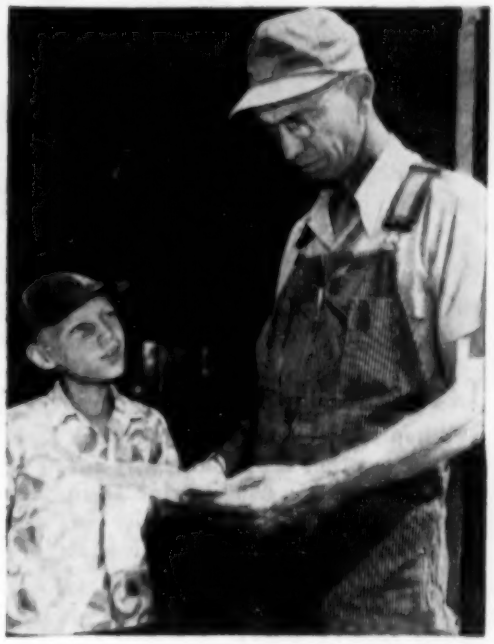
If you feed a *complete* feed, check your feed tag to see if you are eligible for this guarantee.

If part of your ration is grain, your Nutrena dealer can tell you the fat and fiber content of your total ration. Why not see him today.

Here it is, the bright new name in egg feeds . . . Nutrena Fifty-Grand. Only your Nutrena feed dealer has Fifty-Grand. To get the name of your closest Nutrena dealer, write Nutrena Mills, Inc., 200 Grain Exchange, Minneapolis, Minnesota. (Advertisement)

Touchy market caused Hans Knutsen, of Linn county, Iowa, to reduce cattle feeding. Part of 234 head shown here. He has fed over 800 in year.

Expect to pay $20 for feeder cattle in October, says Donald Johnson, Henry county, Iowa. Son Morris is shown with father.



Cattle feeders look ahead

Cheap feed encourages many cattle feeders to try again next season

OVER 40 percent of Iowa farm operators fed cattle last year, in one of the big seasons of cattle feeding history. What will they do this season?

The Wallace-Homestead Poll interviewed cattle feeders in mid-August and found most of them ready to try it again. The Poll asked:

"If you bought feeders last year, will you buy for this year?

"1. More feeder cattle than last year.

"2. Fewer feeder cattle than last year.

3. About the same number."

Farmers answered this way:

1. More feeders	**22%**
2. Fewer	**25**
3. About same	**53**

This question covers the number of cattle feeders, not the number of cattle they will buy. So actual numbers bought may differ from the percentages above.

If many big operators are on the "more feeders" side, the total of cattle on feed may go up. On the surface, however, it looks as if cattle feeding plans are now about the same as a year ago.

Some cattle feeders lost money last season. Why do they want to try it again?

There will be heavy sales of beef cattle all year. Beef will have competition from record supplies of pork. Why take the gamble?

Cheap feed in the Corn Belt is the main reason that some operators are planning on feeding cattle again. In spite of the drouth, corn will be cheaper than a year ago. In eastern Iowa, particularly, where rains were more frequent, feed supplies will be plentiful.

What about prices of feeder cattle? Earlier this season, ranchers were inclined to hold for high prices. Early rains were good, and there was plenty of feed, especially in the northern plains. Lately, dry weather has made some difference.

What do Iowa cattle feeders hope for? The Wallace-Homestead Poll asked about prices in October and got these replies:

"What do you expect to pay for feeder cattle in October?

1. Around $20	**19%**
2. Around $18	**42**
3. Around $16	**35**
4. Around $14	**4**

Some of these answers mean that cattle feeders are planning on buying lower grade cattle rather than hoping for much of a drop in price. A majority are thinking about $16-18 as the price range that will yield them a profit.

Can Iowa farmers buy feeders at this price in October? Weather and market prospects from now on will have a lot to do with the answer.

Where do these Iowa cattle men get the stuff they put on feed? The Wallace-Homestead Poll asked this question. Since one farmer may use two or more sources, the answers total more than 100.

"Where do you buy feeder cattle?

1. At public stockyards, like Omaha	**55%**
2. At sales barns or other public cattle sales	**59**
3. Out on ranges and deal direct with owners	**15**
4. Locally from other farmers	**19**
5. From feeder cattle dealers	**11**
6. Other	**6**

How many Iowa operators feed some cattle regularly? The Wallace-Homestead Poll found this division:

"Do you fatten cattle for market regularly each year?

1. Yes	**33%**
2. Sometimes	**21**
3. Never	**46**

How many Iowa cattle feeders raise their own and how many buy? The Poll found this:

1. Buy most of their feeders	**46%**
2. Raise most of their feeders	**48**

The interviews in this Poll were made in mid-August, so that most farmers were able to size up the effects of the drouth. If fall rains improve the feed situation in Iowa, more may think about feeding cattle. If dry weather in the west forces more feeders on the market at lower prices, more Iowa farmers may take a chance.

But without any big changes in crops and weather, it will still be a big cattle feeding year in Iowa. Just how big turns on the price of feeders in October.

Editorials...

Let's Go Fishing

When there's a let-up in fall work and the weather is pleasant, why not treat yourself to a fishing trip? Here is the Gerald Brewer family of Audubon county, Iowa, at the boat dock on Spirit Lake.

How Much Pork

HOW MUCH pork will consumers eat next year? It depends on the size of next spring's pig crop, in part. But if the 1956 spring pig crop is like that of 1955, then the year by year figures look like this, according to USDA estimates:

	Pork consumed per person	U.S. average price to farmers
1949	66.8 lbs.	$18.10
1950	68.1	18.00
1951	70.6	20.00
1952	71.6	17.80
1953	62.9	21.40
1954	59.7	21.60
1955	66-67	16.70 (?)
1956	66-67 (?)	?

If the 1956 spring pig crop goes up five percent, the number of pounds of pork consumed would rise to 68 and a further drop in price to farmers would be indicated. If farmers cut production instead, the 1955 average price (estimated above) would be improved in 1956.

All of this assumes that payrolls and industrial production will stay high. If they drop a notch, then hog prices would take more of a beating.

Can't Buy Milk

MANY OLD people aren't getting enough to eat. Dr. Frederick Stare of Harvard reports this and explains that these folks are too poor to buy milk, eggs, meat or amino-acid pills.

So he suggests adding key amino-acids, such as lysine to bread or cereal. Poor people can afford to buy these cheap foods.

There is a simpler solution. Let's revive the food stamp program, and see that these poor old folks get some milk, eggs and meat.

Welcome To Karl Fox

IOWA STATE COLLEGE has a new head for its department of eeconomics and sociology. He is Dr. Karl Fox, formerly of the Bureau of Agricultural Economics and more recently the farm expert for the president's council of economic advisers.

Some months ago, Dr. William G. Murray decided to give up administrative work as head of the department and give his full time to research and teaching. It was plain that President Hilton and Dean Andre—with help from a committee of the department staff—had a job on their hands to fill Murray's place.

Wallaces' Farmer and Iowa Homestead is sure Karl Fox can do it. He is a man who has specialized in price studies. He knows what happens to hog prices when market shipments increase or when consumer income drops. But he has also, as chief of the statistical and historical research branch of the marketing service of USDA, learned to look at major price problems in all farm fields.

A Personal Note

Develop farmer views on income drop before Congress meets again

AS I TAKE the editor's chair with this issue of Wallaces' Farmer and Iowa Homestead, I find myself looking both forward and backward, and feeling both hopeful and uneasy.

With regard to the past, I am thinking especially of the long record of service hung up by Don Murphy, Henry A. Wallace and the others before me in this job. As a farm youth, I learned to read this magazine with a high regard for its intelligent inquiry into problems affecting farmers. More than any other source, it helped me to understand the puzzling times thru which I was living. I shall try, therefore, to continue our editorial work in this same spirit of helpfulness and guidance.

I am uneasy because of the recent trend in farm income and the attitudes as to what, if anything, should be done about it.

For the past month, when I could spare the time from farm work, I have been reading some of the economics journals to see what the professionals are saying. I have also read the recent speeches and other material coming from the United States Department of Agriculture. These have not been very reassuring.

One analysis, in particular, caught my attention. The writer took up the various solutions that have been mentioned for dealing with the farm problem. One by one, he dismissed them as mostly ineffective.

At the end, the article arrived at this amazing conclusion:

"The way to increase net income per farm operator—the thing that farmers are really interested in—is not to try to raise prices, not to reduce the supply of farm products, but to reduce the supply of the factor of production that you want to benefit—the farm operators."

It has astonished me to find that a good many others are thinking along this same line. They seem almost reluctant to endorse higher farm prices because they might interfere with this process of displacement. Anyway, some say, the "able, aggressive" farmers, especially of the Corn Belt, could survive even lower prices because they are so efficient.

I wonder. In my own county, I would hate to see some of my neighbors obliged to farm still more land in order to attain income parity, not because I think they may already have enough, but because I think they already are working pretty hard, compared to city hours. One of them has been out all this year with a disabled back. Another recently went to a clinic in a state of exhaustion.

Yet something will want to be done before long. I cannot believe that rural people who courageously face bad weather, insects and disease year after year, will be altogether content with a policy of "devil-take-the-hindmost."

By winter, I suspect most of us will be taking long hard looks at not just one, but all of the proposals for helping agriculture. We should do this before the Congress convenes again and before the political parties start chopping out farm planks.

On that note, I begin my new duties.

Art Thompson.

Wheat To Corn Again?

WILL SECRETARY BENSON in 1956 again permit acres taken out of wheat, cotton and rice to be used for corn or other price-supported crops?

Last year, it was at first ruled that to qualify for price support on any crop under allotment, a producer also would have to be in line with acreage limits established for all other crops. That is, he would have to be in cross-compliance.

But as soon as opposition arose, Benson backed down. As a result, grain sorghum plantings went up sharply this year, especially in the winter wheat belt. There also was a further expansion in the southern soybean acreage.

Judging by the latest news coming out of Washington, Benson seems about to decide to leave it up to the Congress to legislate specifically on the cross-compliance problem. With winter wheat seeding time so near at hand, this worries Corn Belt farmers. They know that legislative action cannot be taken soon enough. Besides, it isn't necessary. Under existing law, the Secretary of Agriculture can act.

If corn producers are to see cross-compliance on 1956 crops, it seems clear that they will have to speak up vigorously. The Iowa Farm Bureau Federation has already started the ball rolling, wiring Benson that "control of diverted acres is an absolute essential to a workable price support program." Additional representations doubtless will be required to make an impression.

Heavy straw was a problem on many farms this year, threatening to smother seedings and interfere with plowing. V. D. Moeller of Bremer county, Iowa, solved the difficulty by using a field chopper.

Odds and Ends . . .

. . . PRACTICALLY ALL Iowa meat processors are now paying some kind of premium for meat-type hogs, according to Sam H. Thompson, of the Iowa agricultural experiment station. However, as yet, only a few are buying on the basis of actual carcass grade.

. . . A NEW KIND of foreign trade device—the third-country negotiation—recently was employed for the first time by the United States. When Japan was unable to grant tariff concessions to a third country with which it wanted to trade, the United States itself granted these concessions on behalf of Japan. In return Japan made suitable tariff concessions to the United States. This is important because Japan at present is the chief foreign outlet for American agriculture.

. . . WHEAT GROWERS will be discounted 20 cents per bushel on the government support price if they continue to raise 23 varieties named as "undesirable" by the U. S. Department of Agriculture. This action meets the criticism that the farm program has caused undue storage accumulation of inferior milling wheats. Your local ASC office has the disapproved variety list.

. . . OUT OF A TOTAL of 279,815 eligible farmers, about 19 percent or approximately 53,200 voted in the recent ASC community elections in Iowa. The vote in 1954 was 21 percent.

. . . POTATO GROWERS or handlers will receive government assistance in diverting excess production to starch, feed and flour uses. In states which submit plans satisfactory to the U. S. Department of Agriculture, payments for such diversions will be made at the per hundredweight rate of 50 cents during the fall months, 40 cents for January thru March and 30 cents thereafter thru June.

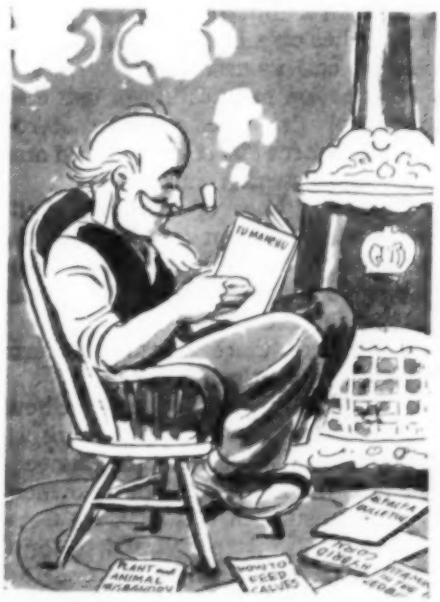
. . . FROZEN DESSERTS made with fats other than butterfat were authorized for production in 10 states in 1954. Output totalled 31,416,000 gallons, an increase of 30 percent over the previous year.

. . . HOW MUCH water do you suppose it takes during the growing season to produce a bushel of corn? The average May-August rainfall in Iowa is about 16 inches. Spread over an acre of ground, this fall amounts to 435,600 gallons. If you figure your yield at 60 bushels per acre, the rain portion per bushel then amounts to 7,260 gallons, including, of course, the run-off waste.

. . . AGRICULTURAL exports in July, 1955, are estimated to have amounted to about $265 million, a gain of about 25 percent over the same month in 1954. The current gain was due mainly to government activity.

Song of the Lazy Farmer

SOME people think it's a crime for any man to waste his time a-readin' up on how to farm—they think it does less good than harm. They love to crack a lot of jokes 'bout what they call "book farming" folks; they seem to think a man's a nut unless he is illiterate. Well, I don't think I'm crazy yet, despite a deep desire to get ahold of ev'rything I can that might make me a smarter man, because I'm doggone sure it pays to spend some time on autumn days absorbin' all the facts that's in a magazine or bulletin.



Mirandy sometimes has a doubt which she expresses with a shout, but still she knows she can't complain about me filling up my brain as much as if I tried to keep from working with just rest and sleep. Besides, as I become more wise I'm better able to advise about what crops she ought to grow and where the price of each will go. My neighbor should be happy, too because I study like I do; for him "book farming" makes some sense, tho he may laugh at my expense, 'cause I am fixed to tag along and tell him what he's doing wrong.

These calves were fed at the U. S. Range Livestock Experiment Station to test the bulls that sired them. Fast gains and good carcasses are credited to the sire's record.

Test beef bulls by feeding calves

by **Homer Hush**

HOW do you pick a beef bull? By his looks, and the way he fits standards of type and conformation?

Bulls picked that way don't necessarily sire calves that gain rapidly and make high quality carcasses when fat.

Something you can't see in a bull is important on both points. Ability to make fast gains is largely inherited. So is carcass quality.

The importance of inheritance is indicated by breeding and feeding tests at the U. S. Range Livestock Experiment Station near Miles City, Montana.

Speaking of feedlot performance, J. R. Quesenberry, animal husbandman in charge at the Montana station, says:

"Steer calves from one bull may gain a half pound more per day than calves from another bull that looks just as good."

On type and conformation, Quesenberry says: "Long-bodied and rather long-legged steers often gain rapidly, gain cheaply, and make high quality carcasses."

How have they found out that inheritance is so important in feed lot performance of cattle?

By "production testing" of 13 lines of Hereford cattle developed at the station. Bulls are tested by feeding out their calves.

It's not unlike testing of dairy bulls. Beef bulls get a high score if their calves feed out better than calves from other bulls.

In one calf feeding test, calf gains were compared from 13 bulls representing lines developed at the station. Each bull was represented in the feedlot by eight of his calves.

Calves from one bull gained almost a third of a pound per day above average.

Net returns showed $45 per calf extra profit for the progeny of the best bull over the poorest bull. Value of the eight calves from the high scoring bull was increased $360 over the calves from the low scoring bull.

"Such differences are by no means exceptional," say the cattle specialists. "One bull will consistently produce better-doing calves than another."

Calves from the high scoring bulls will be heavier at birth, heavier at weaning and heavier than average at the end of the feeding period.

And these calves that inherit fast growing tendencies also make good juicy beef when slaughtered.

The experimenters say, "Tests do not support the belief that steers selected for gaining ability produce less desirable carcasses."

Just how much influence do the sire and dam have on the calf's money-making characteristics? Investigations show heratibility influence in percentage:

Birth weight	**53%**
Weight at 15 months	**86**
Rate of gain on feed	**65**
Carcass grade	**33**

Notice that gaining rate and 15-months weight are affected most by inheritance. But the sire and dam exert influence on all points. And these points make calf values.

Selection and testing of cattle is only part of the work on the 56,700-acre ranch where 800 cows are bred annually for experimental purposes.

Several lines of Hereford cattle are inbred and then crossed to produce hybrid vigor. This work shows promise. But it's a slow process. More time must precede conclusions.

What do these Montana experiments mean for cattlemen?

Bulls and lines of cattle should be production tested. Such work is now going on in 37 states. More is needed.

In the meantime, herd owners can apply results in this way, (1) Get a bull that made fast early growth, or (2) in the case of old bulls, get one that has produced big, fast gaining calves.

This bull is famous for the fast gaining calves he has sired. He is "Carson Domino" and is from Line One at the U. S. Range Livestock Experiment Station at Miles City, Montana. They have 13 lines that are being production tested. That is, a bull is said to be good if his calves show performance above average in the feedlot.

Why you add PROFITS when you add PRAIRIE GOLD

MINNEAPOLIS-MOLINE
MODERN MACHINERY

One trip with this Minneapolis-Moline Uni-Picker-Sheller and your corn's in the truck-box . . . ready shelled. One of five MM Uni-Farmor harvest machines built to mount on the MM Uni-Tractor, this self-propelled, one-man unit handles corn with up to 30% moisture content . . . gets your corn in early, before borers and wind damage can cut yields.

IMPORTANT NEWS FOLLOWS—
SEE HOW MM MACHINES BUILD HARVEST PROFITS FOR YOU

MINNEAPOLIS-MOLINE
trusted quality since 1825

***Champion among champions—* MM UNI-HUSKOR**

This world champion MM Uni-Huskor placed 1st, 2nd and 3rd in the 1954 International Mechanical Corn Picking Contest. It's a prize-winner in your corn, too, with full self-propelled operation, power steering, Uni-Matic hydraulic height control and the exclusive MM gathering, snapping and husking advantages. The new more-powerful-than-ever MM Uni-Tractor that powers and propels the Uni-Huskor mounts the Uni-Forager, Uni-Windrower, Uni-Harvestor and Uni-Picker-Sheller to make you self-propelled in every crop.

it takes champion *to make corn*

Self-propelled on your* MM *tractor—

MM MOUNTED HUSKOR

You get championship husking advantages in the compact 2-row Huskor that mounts right on your MM tractor! You see where you're going and what you're doing right from the tractor seat . . . guide floating points exactly where you want them with a twist of the wheel. Two quick hook-ups mount this Huskor on MM Models ZAN, ZAU, ZBN, ZBU, UBN, UBU, UTN and UTU tractors.

Pick and shell in one quick trip—

MM UNI-PICKER-SHELLER

Your corn harvest becomes a quick, one-trip job with this advanced MM Uni-Picker-Sheller. Powered and propelled by the new MM Uni-Tractor, the Uni-Picker-Sheller handles corn with up to 30% moisture content, gets your crop early, before corn borers and wind damage can knock down yields. Cobs and husks stay right where they've grown to mulch the soil. Corn tank holds 40 bushels, unloads into truck or wagon through a high-speed auger.

Be a champ-with a champ!

***The corn belt favorite*—MM 2-ROW HUSKOR**

Proved by thousands of profit-wise corn farmers, now better than ever with husking advantages proved unbeatable! This MM 2-row Huskor gives you a big-capacity husking bed with twelve 36-inch sectional-type metal and rubber husking rolls that take the heaviest fields in stride. A 2- to 3-plow tractor pulls and powers this 2-row Huskor—lets you pick up to 25 acres a day. For smaller acreages, a big-capacity 1-row Huskor is available.

MINNEAPOLIS-MOLINE MM MODERN MACHINERY

HUSKORS

pay like this!

50,000 SAW IT HAPPEN . . .
MM *UNI-HUSKORS WON 1st, 2nd, 3rd*
AT 1954 INTERNATIONAL HUSKING CONTEST

Pick just one wagonful with a Minneapolis-Moline Huskor and you know you're running a champion! This is the husking system that adds *extra* bushels to *record* yields . . . yet gets corn out of fields so down and out-of-line that hogging it out seems the only way to harvest. Here are some of the *champion* advantages MM Huskors give you:

Three gathering chains on each snapping unit take your corn as it grows . . . short, bent or out-of-line. Points float free in any of five positions to raise down stalks . . . hug ground contours.

Snapping rolls 53½ inches long, up to 12 inches longer than other pickers, snap high *and* low ears. Only the lower 18 inches are grooved . . . to practically eliminate field shelling.

Exclusive side-to-side and rotating action of the spring-mounted MM Uni-Huskor raddle spreads the ears over the full width of the husking bed . . . constantly turns the ears to use every inch of husking area.

Four-section metal and rubber husking rolls give you exclusive four-stage husking action. Alternating metal and rubber sections on each side of the turning ears strip husks thoroughly . . . without crushing or cracking.

Ask your MM Dealer to show you the bonus Huskor advantages . . . the full-length corn savers, high-speed cleaning fans, all-steel construction, easy lubrication and adjustment. The more you find out about MM Huskors, the more certain you'll be that these champion performers can make money for you . . . *as no other picker can!*

MINNEAPOLIS-MOLINE MINNEAPOLIS 1, MINNESOTA

***The champions all drove* UNI-HUSKORS**

Meet the 1954 Mechanical Corn Picking Champions and the Uni-Huskors they drove to make history! Left to right: 1st place winner, Elmo M. Redding, 2nd place winner Richard Kraus, and 3rd place winner William C. Frank. All three topped 1953's 1st place score.

***Shell with the world's best sellers*—MM SHELLERS**

You give your corn preferred treatment when you shell with MM Shellers, long the best sellers in their size. You get real profit capacity at slow cylinder speed . . . thorough shelling without bruising or cracking. Simple adjustments let you shell either husked or snapped corn at capacities up to 300 bushels of husked corn per hour with the Model "D" Sheller—up to 1200 bushels per hour with the Model "E". *Both models are available for belt or PTO.*

Meet MM's New 4-plow

UB SPECIAL

with POWER STEERING* *and* 3-WAY FRONT END

Here's money-making 4-plow power to speed your fall jobs . . . give you new handling ease! It's the new Minneapolis-Moline UB Special with three fully-interchangeable front ends and the most advanced power steering system in the field!

You boss this tractor with a touch! There's less muscle work than ever with this eager, touch-controlled UB Special. In plowed fields, over dead furrows, along ditches and hill-sides, effortless hydraulic power turns *for* you . . . *holds* the course you set. You control mounted and pull-behind machines through MM's Uni-Matic hydraulic system. On every job, you work with a powerful reserve of high-compression 4-plow power that answers your every demand. You get more work *done* with this new UB Special because it's built to do more work *for* you! See it at your MM Dealer soon!

NEW POWER STEERING*

This simple, rugged power steering system uses a rodless, double-action piston with a rack that engages the steering sector directly. A turn of the steering wheel directs hydraulic pressure to either end of the piston. When you stop turning the wheel, the piston automatically holds the tractor on course. Manual steering is always available.

*Power steering is extra equipment

3-TRACTORS-IN-1!

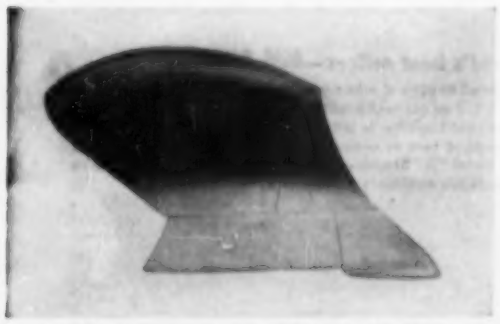
When you own the new MM UB Special, you tackle every job in every crop with the front end type that serves you best. In just minutes, you mount single wheel, dual wheel or wide, extended front ends. You use the same steering pedestal and power steering unit for all three . . . make easy, low-cost changeovers on your own farm.

Button up those fall jobs the MM way
Save dollars, save hours, save work

Get a 3-plow profit boost with this MM ZB TRACTOR

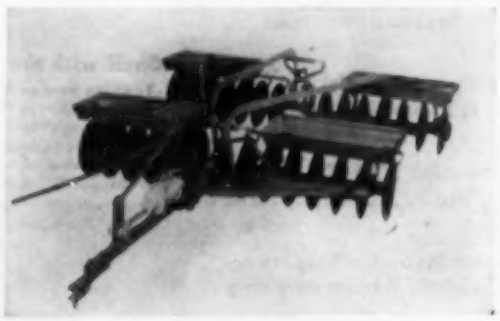
You add 3-plow capacity that's built to pay when you put this big-value MM ZB to work for you. Husky, high-compression engines for gasoline, LP gas or tractor fuel give you top performance *and* top fuel savings. Trim, Visionlined design, Uni-Matic hydraulic control, and live power take-off save you work . . . save you time. If 3-plow power is right for you, make it the MM ZB tractor and make it pay best!

MINNEAPOLIS-MOLINE MINNEAPOLIS 1, MINNESOTA



MM 4-PART PLOW BOTTOMS

Most advanced plow bottoms made! Point, share and shin of the new MM RP plow bottoms are *all* replaceable . . . *all* built to outwear the heaviest old-style bottoms. You get long plowing life and low-cost replacement, too. Available in the regular RP type with interchangeable 12-, 14- and 16-inch shares, or the deep-tillage RPD with 14- and 16-inch shares, to fit all standard MM plows.



MM 11-B DISC HARROW

Cut cleanly through trash, stubble and clods, mulch the soil to hold every drop of moisture with this MM Tandem Disc Harrow. Full 7-inch disc spacing gives you a wide cut with easy pulling and reduced clogging in the trashiest fields. You angle gangs right from the tractor seat . . . get quick, short turns without gouging or digging in.

MM UO WHEELED HARROW

Now get all the advantages of hydraulic-controlled wheels for transport and depth control in a husky, long-life MM Harrow. With this new MM Model UO, you roll to and from the field on wheels . . . raise, lower and adjust wheels hydraulically for any penetration you want. Pick 9-, 10-, 11- and 12-foot sizes, plain or cutaway discs.

Performance king in soybeans **"88" HARVESTOR**

Owners say they out-harvest far bigger machines with this "88" Harvestor. The one-piece header teams with self-adjusting raddle feed to take the heaviest, weediest beans in stride. Adjustable tread lets you run both wheels between the rows . . . keeps the "88" level for an unbeatable separating job.

The engine-driven model packs a new, more powerful V-4 engine. The power take-off model has a new heavy-duty PTO gear box and a friction-type slip clutch . . . a 2-3-plow tractor handles it with ease. *See* the big-capacity "88" . . . *test* it . . . *prove* it. You'll *know* it's the Harvestor for you!

WILL YOUR BEANS GET TOP PRICES?

Today's higher soybean standards make recleaning practically a must. Make sure your beans qualify for top prices. MM Harvestor Models "69" and "88" and the Uni-Harvestor are all available with the famed Scour-Kleen attachment. Specify Scour-Kleen for your MM Harvestor and make your beans pay best.

Tackle the toughest soybean harvest and make every row yield more

Take a tangled, wind-snarled field of soybeans, so weedy you can hardly see the beans—*that's* where these MM Harvestors shine! MM guard fingers get down as low as 2 inches above the ground to pick up flattened vines . . . high-speed MM sickles shear vines quick and clean, without pod-loosening vibration . . . self-adjusting chain raddles (on the "88" and Uni-Harvestor) feed the cylinder at a steady, full-capacity rate in every stand without slugging. That's how *MM harvesting* boosts soybean yields *and* soybean profits.

From cylinder to grain tank, your soybeans get the full benefit of the most advanced threshing-separating-cleaning action ever built into a combine! MM rasp bar cylinders and precision all-steel concaves thresh with a gentle "rubbing" action that prevents cracking beans or chewing stalks. Full-width straw racks, sloping grain pans, big capacity cleaning shoes and Scour-Kleen attachments (extra equipment) deliver your beans to the tank clean . . . for premium prices.

This year, give your soybeans the profit advantage of MM Harvesting. Ask your MM Dealer for *all* the facts on MM Harvestors. Place your order *now*—be sure you're ready when your beans are ripe.

MINNEAPOLIS-MOLINE MINNEAPOLIS 1, MINNESOTA

***Self-propelled capacity*— MM UNI-HARVESTOR**

Other machines had to pull out of this bean crop—the Uni-Harvestor walked right through. Mounted on the new MM Uni-Tractor, you get 20% more power, hydraulic power steering, Uni-Matic hydraulic header control and a host of self-propelled advantages. The header takes a 9-foot cut. Variable-speed drive and self-adjusting raddle feed give you full-capacity harvesting in every stand. Same Uni-Tractor mounts Uni-Farmor machines for forage-chopping, windrowing, corn husking—or picking and shelling in one trip.

***For your lowest-cost harvest*—MM "69" HARVESTOR**

Every cent you spend buys unbeatable performance when you pick this MM "69" Harvestor. So light-running a 2-plow tractor with power take-off handles it; so perfectly balanced one man can easily lift the hitch to drawbar height—that's the "69"! With a 69-inch cut and straight-through, full-width threshing and separating, you get big capacity . . . clean beans. You can buy the "69" with a header or quick-attaching windrow pickup . . . with a compact, powerful V-4 engine or PTO drive.

Farm and feedlot

Changes In Climate Are Slow

Does climate change? Yes, says the United States Weather Bureau.

But whether it is changing now is difficult to answer. Changes within a lifetime are too small to be noticed by anyone but scientists. They are well hidden by the year to year fluctuations.

A drop of 10 degrees in the average temperatures would mean another ice age. But such changes take place only over thousands of years.

Most cities have temperatures averaging one or two degrees above the surrounding areas. That's because of heat given off by furnaces, motor vehicles and masses of people.

Records from isolated stations do indicate an average temperature rise of about two degrees in the moderate latitudes since about 1900. Most of the rise has come in the winter.

What's Meant By Light Hogs?

Farmers are advised to sell hogs light for greatest returns. What is meant by light hogs?

Generally speaking, selling hogs light means selling between 180 and 220 pounds. Those are the weights that ordinarily bring top prices when other factors are right.

It should be pointed out, however, that you can sell hogs too light. At weights between 160 and 180 pounds, hog prices are often discounted one dollar per 100 pounds.

Hogs can sometimes be sold in the 240-270 weight bracket without much discount. But feeding to these weights is risky because hogs may get too fat to grade. And discounts for heavy hogs can be applied quickly.

Sale of hogs around 200 to 220 pounds increases quality of pork cuts. And total supply of pork will be much less than if hogs are fed to heavier weights. These two factors make early selling at light weights good for the hog raising industry generally.

"No, I've never made any money on my bees, but they've stung my mother-in-law twice."

Not Much Corn Hogged Down

Hogging down corn saves machinery, time and labor. But the practice is not as popular as it used to be.

Probably the reason is that farmers with modern rations and feeding methods can get faster gains in a yard than in a corn field. The difference is enough to be noticed.

Reasons for lower gains in corn fields may be the difficulty of getting corn properly balanced with protein. Also the fact that hogs may exercise enough to run off some of the gains.

So if you do hog down corn these precautions should be taken: Turn pigs in rather small fields. And be sure that protein feed and water are near, or perhaps at the entrance to the corn field.

Cattle Movement Slow In July

Feeder steers sold at 10 markets in July compared with last July as follows on number, weight and price:

Total sold in July, 1955, was 20 percent under July, 1954. Totals were 48,033 this July against 60,726 for the same month last year.

Average weight this July was nine pounds per head under July last year. Average was 674 pounds for the month this year and 683 pounds last year.

Average price paid in July this year was $1.91 over July last year. This year's price averaged $17.91, and the price for the same month last year was $16.00.

Notice that these figures are for July at the beginning of the cattle moving season. They indicate little as to what cattle movement and prices will be as the fall cattle runs get going.

Pastures were good on the ranges in July. Corn Belt farmers were beginning to be scared about heat and dry weather.

I Lowered My Feed Cost Switching to HOG CONCENTRATE

WILLARD E. SWATERS of DENISON, IOWA, *feeds his hogs* MURPHY'S. *Here's what he says:* "We farrowed 152 pigs and marketed 151 hogs 5 months and 17 days later, weighing an average of 203 lbs. at Sioux City market. These hogs were fed from birth to market on MURPHY'S hog feeding program. The average feeding cost per head was about $9.25 per 100 lbs. of gain, including all farm grains, concentrate and minerals. This year we have 123 head of hogs that are on the way to an even better record."

ELDON and J. C. VERCANDE of NORTH ENGLISH, IOWA, *have this to say about* MURPHY'S *hog feeding program:* "Our spring pigs were farrowed between February 6 and March 12, 1954. We weaned 104 head. We used 2350 lbs. of MURPHY'S PIG STARTER for a cost of $211.50; 125 lbs. of MURPHY'S PIG SPURON, cost $33.75; 5100 lbs. of MURPHY'S CUT-COST HOG CONCENTRATE, cost $377.40, and 874 bushels of our own corn, cost $1311. The total cost was $1933.65. Gain cost us $9.30 per 100 lbs. of pork."

HARRY PETERSON of SCRANTON, IOWA, *feeds* MURPHY'S *to his hogs on his farm. He says:* "I got the best gains on my bunch of pigs I ever got and with less feed! I sold the first pigs at 5 months weighing 220 lbs. I really like MURPHY'S HOG CONCENTRATE to help me raise the kind of hogs that get to market fast for a low outlay for feed."

GLENN SLINGER of CHARLES CITY, IOWA, *who is a* MURPHY HOG CONCENTRATE *feeder, says:* "I changed to MURPHY'S after feeding another feed for 3 years. I changed feed to lower my feed costs and I saved over $200 on feeding 100 pigs the MURPHY way."

MURPHY PRODUCTS CO. BURLINGTON, WISCONSIN

I Lowered My Feed Cost Switching to BEEF CONCENTRATE

CLARKE McDONALD of GLIDDEN, IOWA, *has this to say about* MURPHY'S BEEF CONCENTRATE: "I fed 40 steers that weighed 836 lbs. when bought and weighed 1268 lbs. when sold. The steers went in drylot and were self-fed a ration of ground ear corn, CUT-COST, MURPHY'S MINERALS and hay. Consumption of CUT-COST averaged ¾ lb. per head per day. These steers went to market in 132 days on May 10. *Their average daily gain was 3.3 lbs.*"

You can safely feed MURPHY'S CUT-COST BEEF CONCENTRATE *free choice. So to save labor and lower your feed costs—Switch to* MURPHY'S.

NORVILLE McCLEARY of LIBERTYVILLE, IOWA, *has this to say about* MURPHY'S *beef program:* "My MURPHY-fed cattle put on about 3 lbs. gain per head per day on a ration made from 19 lbs. of corn, ¾ lb. of CUT-COST, and a little silage and straw. I've tried other feeds including the latest in "growth additives" but I've always done better on MURPHY'S. I can self-feed MURPHY'S with no worries and no scours. My cattle are staying on feed with good, rugged health and top feed efficiency."

MURPHY-*fed cattle go on feed easily—stay on feed better.*

JOSEPH A. KARME of CARROLL, IOWA, *feeds* MURPHY'S BEEF CONCENTRATE *on his farm. He has this to say:* "I feed about ¾ lb. of MURPHY'S BEEF CONCENTRATE per head per day along with ground corn and roughage. The last group of cattle I fed out on a MURPHY feeding program gained an average of 3.2 lbs. per head per day for 128 days. These MURPHY-fed cattle were sleek coated—shipped well—and sold well at the market."

MURPHY PRODUCTS CO. BURLINGTON, WISCONSIN

Voice of the farm

Suggests Farm Unions

To the Editor: Prices of things we buy for the operation of our farms keep going up. And prices for farm commodities keep going down.

Practically all labor is demanding higher wages. And they get what they want—or they will strike and tie up the whole economy of our nation.

Why did labor bring unions into the picture? Simply to better their financial condition. They were in the same fix as the farmers are in today. The people they worked for fixed the price.

We must have unions like labor. Labor has hundreds of unions. So farmers must have a union for every segment of agriculture—wheat, corn and other grain and seed producers, cattle, hogs, sheep and poultry. Each union should have a committee of not less than five members to keep in touch with all the markets at home and abroad.—Dick McLouth, Kansas.

"Is That Weed Control?"

To the Editor: To the "Iowa Subscriber" who can't get action on weeds, I would like to say that I think your supervisors are acting very wisely.

Here in Floyd county, thousands of dollars have been spent on weed control. Our roads are just as weedy as they were 10 years ago.

About July 22, this year, they were spraying thistles along the road after they had been blowing for two weeks.

Is that weed control? . . . I think it is about time our supervisors quit this waste of the taxpayers' money.—H. H. G., Floyd county, Iowa.

He Objects To Food Stamps

To the Editor: You apparently favor food stamps. They are okay if free.

No American citizen getting old age assistance, social security, or any other kind of welfare payments should be forced to take stamps in lieu of cash, in order to help farmers or any other class of citizens.

Old people and unfortunate ones have constitutional rights. They should not be violated by self-accredited wise people who wish to tell them what to eat, drink and wear in order to provide easy jobs for an ever-growing army of alleged workers, or farmers either . . .

I don't care to be forced to eat pork to boost the cash income of the pig sloppers . . . There are other ways the farmer could help himself besides using the unfortunate to get rid of the surplus he keeps on producing.—F. T. Betts, Marion county, Iowa.

Food stamps would be an addition, not a substitute, for any cash aid now being given.—Editor.

Experimented With "Moon Farming?"

To the Editor: The Wallaces' Farmer and Iowa Homestead issue of July 16 containing the results of a poll of farmers on "moon planting" left out one important question. How many of the "no" and "yes" answers came from those who had earnestly experimented with this subject so that they could give an intelligent answer?—Lynn N. Pritchard, Michigan.

Says "Moon Farming" Paid This Year

To the Editor: . . . There is something to it. I have two plots of corn this year—one planted in the sign of the moon, the other three days later. I wish you could see the corn! If there isn't anything to it, I am cuckoo.

I planted watermelons when the sign was wrong. They all went to bloom and no melons.

Did you ever lay a rail fence? You lay one rail fence in the dark of the moon, another in the light of the moon. The bottom rail of one will sink into the ground. The other won't.—E. R. H., Scott county, Illinois.

"By golly, Sam. I haven't seen you and the wife over lately."

I Lowered My Feed Cost Switching to DAIRY CONCENTRATE

HAROLD E. NOE of LIME SPRINGS, IOWA, *has this to say about* MURPHY'S DAIRY CONCENTRATE:

"I began feeding MURPHY'S CUT-COST DAIRY CONCENTRATE to my holsteins two years ago and as a result, increased the herd net for the year by nearly $1,000 over the year before. This spring when I turned the cows out on pasture, I fed one pound of MURPHY'S CUT-COST per head per day. My cows are holding up in production and are keeping their flesh better than they did before I switched to MURPHY'S CUT-COST DAIRY CONCENTRATE."

ART WEAVER of CEDAR FALLS, IOWA, *says:*

"In feeding MURPHY'S DAIRY CUT-COST we have found that our nine cows have gained five gallons of milk per day with a three point gain in test right in the hottest weather, which we think is very good. We feed two cups full of CUT-COST per cow per day."

That's 20 ounces, and it costs less than 10¢ per cow per day to feed MURPHY'S.

L. A. LANCASTER of LUCAS, IOWA, *feeds* MURPHY'S DAIRY CONCENTRATE *to his herd. He says:*

"I switched my dairy herd to MURPHY'S DAIRY CONCENTRATE to lower my feed cost. I ground the grain and fed 1¼ lbs. of MURPHY'S per cow per day on top of the grain. My pasture was short due to the drought, but my cows milked better and over a longer period of time than on any other feeding program I ever tried. I recommend the MURPHY way as a way to lower feed cost, increase production and better health."

For lower feed costs, increased production and better health—switch to MURPHY'S CUT-COST DAIRY CONCENTRATE. 3

MURPHY PRODUCTS CO. BURLINGTON, WISCONSIN

I Lowered My Feed Cost Switching to POULTRY CONCENTRATE

LAYTON WALTERS of COLESBURG, IOWA, *has a flock of 398* MURPHY-*fed Leghorns. He says:*

"We are very proud of these pullets. They started to lay when they were only 5 months old. And today we're getting 313 to 325 eggs from the flock per day and they are now 7 months old. Our birds were started on MURPHY'S READY-TO-FEED VIG-O-RAY STARTER and then continued on MURPHY'S VIG-O-RAY CONCENTRATE and our own grains and roughage. We like the MURPHY feeding program for two reasons: one—our production stays high: two—our feed costs stay low."

GUS NATH of PERRY, IOWA, *has this to say about* MURPHY'S *poultry feeding program. He says:*

"This year I housed 598 of the most beautiful and best developed pullets that I have ever raised. They were started on MURPHY'S READY-TO-FEED CHICK STARTER. At 4 weeks they were changed over to cafeteria feeding of whole oats, cracked corn and MURPHY'S VIG-O-RAY CONCENTRATE. They came into production very fast and my cash outlay for feed has been the lowest in all the time I've raised poultry. I spent $95 for chick starter and $131 for MURPHY'S VIG-O-RAY CONCENTRATE. That's a total of less than 35¢ per pullet for boughten feed from incubator to housing."

Mr. and Mrs. LEONARD WULFEKUKLE of GREELEY, IOWA, *are* MURPHY VIG-O-RAY *feeders. They say:*

"This year we bought 300 pullets. 5 months later we were getting eggs. At 5½ months, our birds are up to 80% production. Past experience has shown us they will stay there. So we're well satisfied with our low cost and high production from feeding MURPHY'S VIG-O-RAY CONCENTRATE for poultry." 4

MURPHY PRODUCTS CO. BURLINGTON, WISCONSIN

Corn Needs Nitrogen!

For bigger corn yields next year use

PHILLIPS 66

AGRICULTURAL AMMONIA

THIS FALL!

Apply Phillips *66* Agricultural Ammonia after corn harvest this fall. When you put down nitrogen in your soil at this season of the year, it increases the soil's population of beneficial bacteria. This practice helps decompose the tons of stalks, roots and other crop residues on your land. In next year's crop you get back the nitrogen in your Agricultural Ammonia plus the nitrogen and other plant foods released from the crop residues. Thus, Agricultural Ammonia applied in the fall helps you keep more acres in your most profitable crop and still maintain soil productivity.

Buy Phillips *66* Agricultural Ammonia now. The sooner you put it down, the sooner it can begin to benefit your soil. Application of Phillips *66* Agricultural Ammonia is easier on you, too, in the fall. No rushing at the last moment before planting. You apply it during your slack season as your work allows.

Phillips *66* Agricultural Ammonia contains 82% nitrogen—more nitrogen per dollar than you can get in any other type of nitrogen fertilizer.

Contact your local distributor, dealer or custom applicator now. Ask him for specific information on fall applications of Phillips *66* Agricultural Ammonia.

Phillips also produces Ammonium Sulfate (21% Nitrogen) and Ammonium Nitrate (33.5% Nitrogen).

It's Performance That Counts!

PHILLIPS CHEMICAL COMPANY
A Subsidiary of Phillips Petroleum Company
BARTLESVILLE, OKLAHOMA

Champion barrow at market weight shows trim side even with rear foot forward. Shown by J. Verald Brown and son Kent of Hampton, Iowa.

Strong hog show at state fair

Total entries up from last year. High quality and meat type in many animals

A TRIM, heavyweight Poland China barrow was named champion market barrow at the 1955 Iowa State Fair. He was shown by J. Verald Brown and son, Kent, of Hampton.

The lengthy Poland China champion weighed in at 223 pounds. He was six and a half months old.

He was given a mixture of oats, barley and supplement during the last part of the feeding period. He did well in both feedlot and show ring.

The one-eared Poland edged a heavyweight, meaty Hampshire shown by Dee Brothers of State Center into second place.

Larry Witte of State Center topped the 4-H market show with his 207-pound Hampshire. Tops in FFA classes was a heavy-hammed Spotted Poland shown by Harlan Ritchie of Albert City.

In the Duroc breeding classes, grand champion boar was Miracle Kiddo, shown by Kenneth Schneider of Mount Carroll, Ill. Reserve went to Henry Hohwieler of Chester, So. Dak.

Top sow was Goldie Mae shown by E. W. Klingaman & Son of Waterloo. Reserve went to Greg Vaske and Sons of Dyersville.

Top boar in Hampshire classes was Iowa Lad shown by Treasure Acres Farms of Blairsburg. Reserve was taken by Emery Riemenschneider of Pierson.

Grand champion Hampshire sow was Golden Bell shown by Harold Fischer of Swea City, Iowa. Reserve went to McGuire Hampshire Farm of Wisner, Nebr.

In Poland China classes, top boar honors went to Emmert Farm of Mason City on Genetic Giant. H. M. Meneough of Grimes took reserve spot.

Top sow was Princess Ann shown by O. B. Olerich of Rolfe. Reserve went to Morgan and Morgan of Harlan.

Grand champion boar of Spotted Poland classes was Dynamite shown by John Claussen & Son of Davenport. Keith Goehring of Selma took reserve.

Sally, shown by Clifford Goff & Sons of Burwell, Nebr., was top sow. Second spot went to Bill Hemm of Chapin.

Winning boar in Chester White classes was Justifier 2nd shown by W. Schubert & Sons of Stockton, Ill. R. A. Riemenschneider of Kingsley took reserve. Also grand champion sow on Sunnycrest Minney. Reserve went to R. C. Williams & Son of Iowa City.

Top Berkshire boar was Lynwood Regent's Flash shown by John C. Tucker of Newtown, Mo. Reserve went to Bonnie Acres Farm of Holstein.

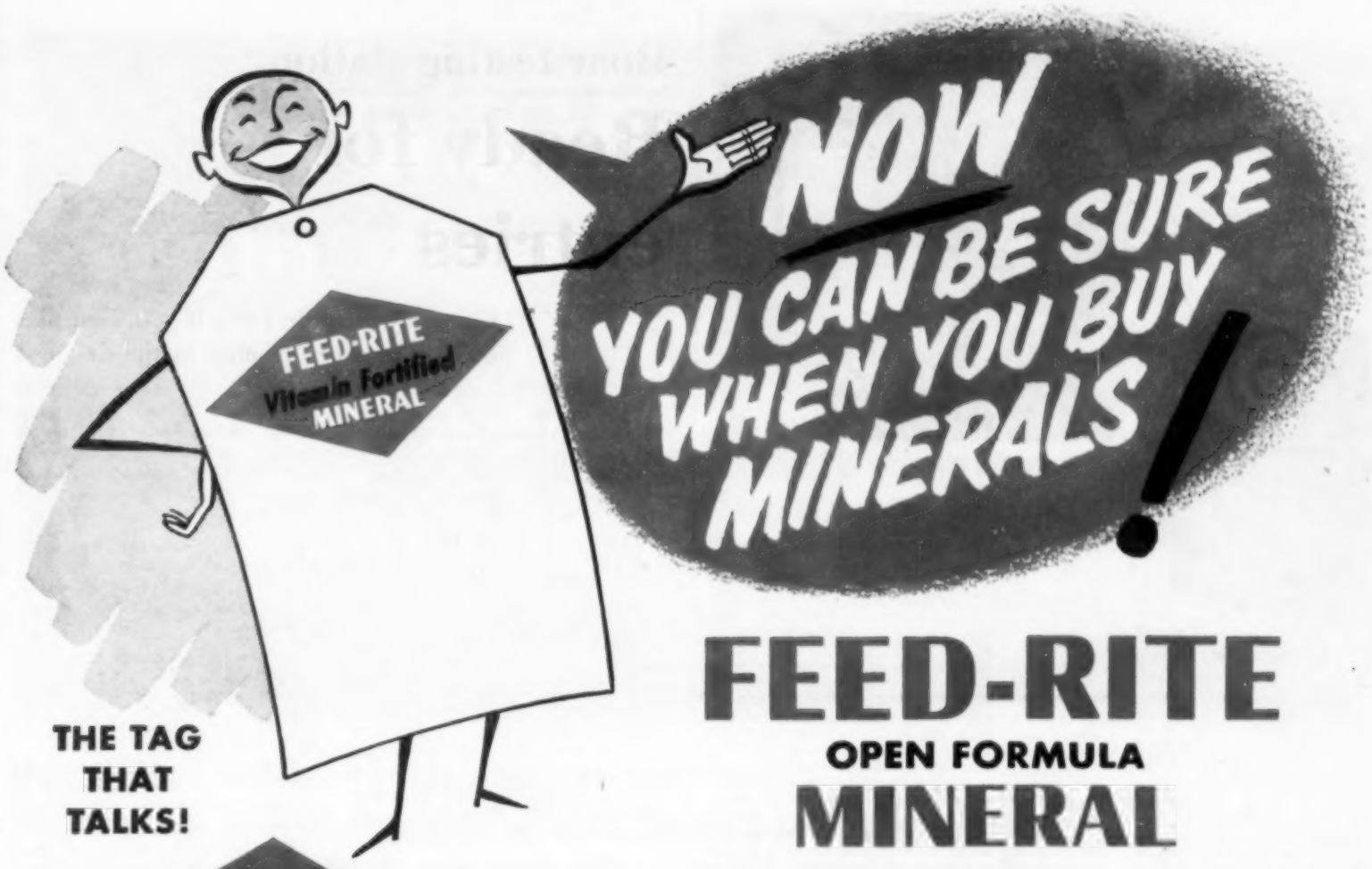
Top Berkshire sow was Quality Ninetta shown by Milo Wolrab of Mount Vernon. Reserve honors went to Honey B Farms of Blair, Nebr.

Charles Booz & Son of Portis, Kans., had top Tamworth boar, Mexicano Enrico. Floyd Crest Farm of Sheldon had reserve. Booz also had both reserve and grand champion sow.

In Yorkshire classes, Henderson Farm and Cerny Brothers of Coin took top boar honors on Oakdale Cosmo. Second honors went to Jim Lein of Graettinger.

Top Yorkshire sow was Beau Ideal Cindy shown by F. L. Jackson & Sons of Lytton. Reserve went to Alfred Accola of Huxley.

Top boar in Hereford classes was Bonnie Boy shown by Lincoln Gall of Garner. Reserve went to Herbert and Bernard Schulte and Sons of Norway. Herbert Schulte & Sons also took top sow honors on PVF Miss Select. Gall took reserve.



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Now you can be sure as to the AMOUNTS of ingredients that you buy in your minerals.

FEED-RITE'S Open Formula Mineral assures you of the exact amounts of ingredients per ton.

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VITAMIN FORTIFIED MINERAL
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OF COURSE YOUR LIVESTOCK NEED MINERAL

With today's stepped-up feeding programs, you know how important it is to have proper minerals. Home grown feeds and pastures seldom provide enough minerals in the proper balance necessary for good feeding results. Many times one or two essential minerals are lacking — the result — your animals suffer a mineral deficiency—resulting in slow growth—slow gains and poor health—Now you can be sure that your animals get the proper minerals—Feed free choice—FEED-RITE MINERALS—the Tag tells the exact amount of each vital mineral. With FEED-RITE you know what you are buying!

COLLEGE TESTS SHOW NEED FOR MINERALS

Purdue University (Extension Bulletin 359)

The health and vigor of the animal and even life itself depends on an adequate mineral supply in the ration. As animals are selected for more rapid gains, the mineral requirements increase.

"It is believed that hogs require 13 mineral elements. Each of the elements have a specific function to perform in the body. A large amount of one mineral element will not make up for a lack of another."

Oklahoma Agricultural Experiment Station
Feeders Day Report, MP-27
Phosphorus Utilization by Cattle and Sheep

"Cattle and Sheep are known to require phosphorus in their ration to maintain productive efficiency. Many soils are deficient in phosphorus. Also many soils are low or limiting in phosphorus, forages such as hays and grasses, that make up a large part of the ration for cattle and sheep are less in phosphorus in comparison to concentrate feeds. Thus, the importance is realized of supplying phosphorus to Cattle and Sheep in the form of a mineral supplement."

FEED-RITE ANSWERS YOUR MINERAL QUESTIONS

Q—Does FEED-RITE have trace minerals?

A—Yes—All of the accepted proven trace minerals are found in FEED-RITE

Q—What does Open Formula mean?

A—Open Formula means that the actual amounts of each ingredient are listed on the tag.

Q—What value is an Open Formula mineral to me?

A—It means that you know what you are buying. You can check on the tag to determine whether or not your mineral has proper amounts of vital minerals to fit your feeding program.

Q—Is FEED-RITE (Open Formula) Mineral more expensive than ordinary minerals?

A—No—Actually FEED-RITE is lower in price than many other minerals.

Stop at your local retail feed store-- Ask him for FEED-RITE MINERALS

FEED-RITE PRODUCTS COMPANY • 300 W. Washington Street • Chicago 6, Illinois

Kenneth Wendt, of Buckingham, Iowa, farms 92 acres, has 35 purebred Chester Whites farrowing each year, and a herd of 40 cows, including 14 Holsteins.

NEW METAL CONTAINER

Self-closing top. Screen bottom provides ventilation, keeps out insects. Dark blue enamel — "hanging holes" in back. Order one NOW — to hold 6 or 6½" filters, $1.10 — to hold 7, 7½ or 8" filters, $1.25.

•

CHUCK WORCESTER tells you more about Kendall filters on his "Sunrise Hour" at 5:15 a.m. over WMT.

"WE FIGURE THEY DO THE JOB BETTER"

says Mr. Wendt

"Been using Kendall filter disks for at least ten years," Farmer Wendt goes on. "We figure they filter fast and do the job better than any other disks".

They sure do! And for a couple of mighty good reasons. The fibers in a Kendall filter are strong and clean to start with, because they're made by men, not nature. Nature's cotton varies far too much in strength and ability to filter clean. It simply doesn't meet Kendall standards.

Secondly, only Kendall filters are *pressed*. You get as many or more fibers as in any other disk, but pressing forces them closer together to block more sediment. Makes sense, doesn't it? Makes for better straining, too. Fast, clean straining and high ratings. Order Kendall milk filters by name. Kendall Mills, *Division of The Kendall Company*, Walpole, Massachusetts.

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STOCKERS and FEEDERS

THE WESTERN RUN IS ON . . . at the Omaha Market. Now is the time to buy your stocker and feeder cattle and calves . . . ewes and feeder lambs.

OMAHA has a BROADER SELECTION

The Western run offers you a broader selection of stockers and feeders from the finest herds in the Western Range Country. You may buy them yourself, direct from a commission firm or dealer . . . or place your order with one of the experienced buying agencies at the Omaha Market.

An important extra is your assurance of accurate weights, clear titles, and sanitary market facilities at Omaha.

SELECT YOUR NEEDS FROM WHATEVER WEIGHTS AND GRADES YOU DESIRE

World's LARGEST Cattle Market and Meat-Packing Center

UNION STOCK YARDS COMPANY of OMAHA

Boar testing station

Ready for entries

Get entry blank in early if you want pigs to have chance of being in the first test

BOAR TESTING station being set up by the Iowa Swine Producers Association is now under construction.

It is located three miles west of Ames and Iowa State College. That's a mile north of a drive-in theatre on U. S. highway 30.

Station is being financed by funds from non-tax sources. That includes grants from some packing companies.

Station itself is just a group of small pens and feeding floors. Pen measuring six feet by eight feet is provided for each group of three pigs. Concrete feeding area of same size goes with each pen.

Units are separated by solid plywood walls. Each unit could handle four pigs if needed.

Don't let the modest appearance fool you. Results of the station work can be mighty important to Iowa's hog producers.

Additional information about the station and its objectives can be obtained from Dr. Ralph Durham, Curtiss Hall, Iowa State College, Ames, Iowa.

Durham can also supply entry blanks and details on how to enter pigs in the first test.

Entries are limited to those from established boar producers. But there is no restriction on breed or strain of hogs.

Pigs for first tests should be accepted by the station between October 20 and November 1.

It'll pay to get entries in right away. Breeders over the state have shown great interest. It looks like there will be plenty of entries to provide a good test.

Not all entries can be accepted because of limited facilities. But don't let that stop you from making your own entry. Breeders that indicate an early interest are likely to get some preference in tests next spring.

Board of directors for the station includes both purebred breeders and commercial hog producers. So far, the board hasn't announced the exact method of selecting the entries that will be accepted. But members have indicated a desire to pick the best entries possible.

Of course, only healthy pigs can be accepted. So herds that have a disease-free history will be given preference.

Entire herd must be inspected by a local veterinarian within 10 days before pigs are sent to the station. No other health certification is required.

Pigs will be examined at the station, too. And they will be checked regularly during the time they are on test.

Entries will consist of four boars and two barrows. Pigs must be from at least three different litters by the same sire. They should be weaned and weigh between 35 and 50 pounds.

Cost will run about $35 per pig —slightly more than feed and labor costs.

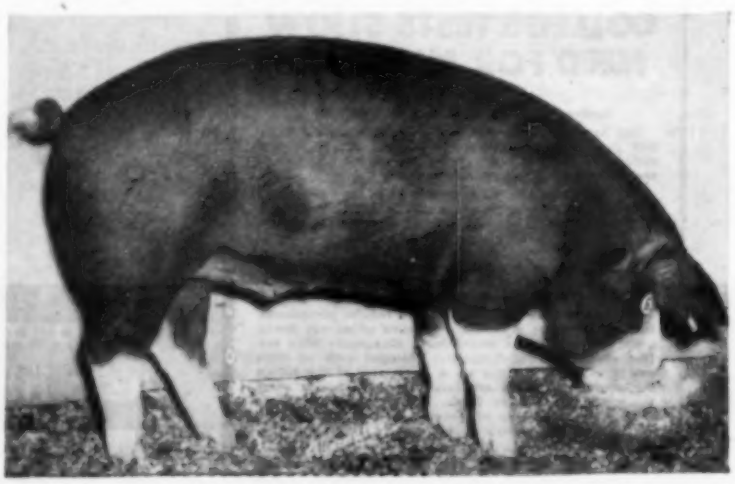
Station capacity is 300 pigs. That gives a check on 50 sires. In addition, there'll be backfat and rate of gain records on 200 boar pigs.

Two tests can be run each year. One on fall pigs, another on spring pigs.

That won't go far toward providing the state with tested boars. But it will give hog producers a chance to see just what a testing station can do. No doubt, some new fast-growing, meat type lines will be found.

Should the testing idea really catch on, entry applications will far outrun facilities. Then county swine associations may want to set up their own testing stations.

Many county fairs have buildings well suited to testing work. So costs could be kept low. Both breeders and commercial hog producers could participate.



Trim, meaty barrows like this 1954 International grand champion are the kind to produce. Tested boars can help you get both fast gains and meat type.

Help prevent losses from disease and stress!

Get healthier cattle and faster weight gains!

...all at a cost of less than 1¢ per head per day

Keep your cattle—from start to market—on rations containing the world's greatest disease-fighter: *

AUREOMYCIN

CHLORTETRACYCLINE

In CREEP FEEDS for suckling calves.

In RANGE CUBES, pasture supplements and wintering rations for growing cattle.

In FEED LOT RATIONS, either supplements or complete feeds, for finishing cattle.

This is the new, profit way to keep your cattle "doing well"—with more vigor, better health, better "bloom", faster weight gains, higher profits per animal. All at a cost to you of less than 1¢ per head per day!

When you first give your cattle a prepared ration, make sure it contains AUREOMYCIN Chlortetracycline. Keep giving AUREOMYCIN in creep feeds, pasture supplements, and feed lot rations. AUREOMYCIN provides *two* big profit advantages: (1) It is more effective against more disease-producing organisms than any other known drug and (2) by helping to prevent disease, AUREOMYCIN promotes healthier, faster-gaining cattle.

This is what successful cattle feeders are finding when they feed AUREOMYCIN: Less pneumonia and respiratory troubles; less scouring and intestinal disorders; fewer "sickness days"; less mortality; fewer "tail-enders"; better feed conversion; earlier market dates.

Where To Get AUREOMYCIN

AUREOMYCIN Chlortetracycline is supplied to feed manufacturers and feed mixers in the form of AUROFAC® Feed Supplements. Two new AUROFAC products—AUROFAC-A and AUROFAC-A Crumbles—are especially adapted to cattle feeding. Write for your free copy of a new booklet called "AUREOMYCIN for Cattle Feeding". It gives the full story of this new feeding program and includes the results of tests conducted in many sections of the country. *Trade-Mark

AMERICAN Cyanamid COMPANY
FINE CHEMICALS DIVISION
30 ROCKEFELLER PLAZA, NEW YORK 20, N. Y.

The "Two-Ten" Handyman—*one of five Chevrolet station wagon models.*

IT'S EASY to be fooled by the "best dressed" appearance of a Chevrolet station wagon. It's a stunner of a family car, all right, but it can also double as a hard-working pickup on dozens of jobs around the farm.

You can fold both the rear seat cushion and back rest flush with the floor. That gives you a load space length (to the end of the tailgate) of nearly nine feet. Maximum width is almost five feet and the height, over three feet. You have 87 cubic feet of load-carrying space inside a Chevrolet station wagon! The cargo floor, including the tailgate and folded seat, is covered with long-wearing ribbed linoleum. Seats, sidewalls and roof lining — color-keyed to the exterior—are styled in tough, *washable* vinyls. So it's easy to keep the interior looking new.

Ask your Chevrolet dealer about engine choice (V8 or 6) and all the other wonderful Chevrolet features. Then, by all means, drive a new Chevrolet wagon. . . . Chevrolet Division of General Motors, Detroit 2, Michigan.

The *motoramic* Chevrolet

Stealing the thunder from the high-priced cars!

Good beef show at State Fair

About 900 beef animals entered in this year's Iowa State Fair

COMPETITION was keen in most classes in the beef show this year. There were fewer Angus but more Shorthorn and Hereford entries.

The Shorthorn show was the largest with 368 entries (128 Polled Shorthorn and 240 Shorthorn). Hereford show was second largest with 288 animals. The Angus show had 218 entries.

Mathers Brothers, Mason City, Ill., showed the junior and grand champion Shorthorn Bull, Leveldale Critic, and their Leveldale Blythesome 8th was named junior and grand champion female.

Mathers also had the senior champion female, Leveldale Augusta Lass, and senior champion bull, Leveldale Caesar.

Edellyn Farms, Wilson, Ill., showed the reserve junior and reserve grand champion female with Edellyn Dorthy 34th. George Struve and Sons, Manning, Iowa, showed the reserve senior champion female Shorthorn, Lane View Veronica.

Reserve junior and reserve grand champion bull was shown by J. A. Collier, Fletcher, Okla.

In the Polled Shorthorn show, Carona Farms, DeKalb, Ill., won most of the bull awards.

Carona Farms had the senior and junior champion bull and reserve senior champion. Their junior champion, Carona Clarion, was named grand champion of the show.

Lewis W. Thieman, Concordia, Mo., showed the reserve junior and reserve grand champion Polled Shorthorn bull, TPS Coronet Commander 5th.

Senior and grand champion Polled Shorthorn female, Queen of Hearts 18th, was shown by Thieman. Junior and reserve grand champion was shown by Lynnwood Farm, Carmel, Ind.

Iowa Angus breeders won most of the Angus prize money. But Glengarry Farm, Mount Carroll, Ill., showed the grand champion bull, Ankonian.

Junior and grand champion Angus female was Arlavon Empress 15, owned by Pagemere and Arlavon, Clarinda and Coin, Iowa.

Johnson Brothers, Ida Grove, showed the reserve junior and reserve grand champion female, Blueblood Lady 437 of Ida.

Wilton Farms, Davenport, showed the senior champion female Blackcap Empress 4th of Wilton. Enoch and Bob Johnson, Arthur, had the reserve senior champion female, Queen of Ida.

Wilton Farms had the reserve grand champion bull, Bandolier 285th of Wilton.

Enoch and Bob Johnson showed the reserve junior champion bull, Wilton Bandolier E & B. Sunset Knoll Farm, Ames, had the reserve senior champion bull, Westside Eileenmere.

Iowa Hereford breeders made a good showing against competition from out of state breeders.

Adams Brothers and Company, Odebolt, showed the champion female on ABC Homemaker 28th. Meredith Farms, Des Moines, had the reserve champion bull, MF Baca Baron 35th.

Barret Hereford Ranch, Camanche, Texas showed the champion bull and reserve female.

PAW TUCKER—It makes Paw so blamed mad!

Peebles' fills them out.. for long, heavy laying

THERE'S nothing quite like a milk by-product boost for young layers as they start fall production. It helps them when they must adjust themselves to egg production while they're still growing.

Peebles' vitamin-fortified whey blocks are a concentration of important whey nutrients that help head off costly delays in body development . . . delays that show up in lowered egg production later in the season.

These whey blocks are moist and appetizing . . . and as digestible as milk itself. The nutrients they supply, the conditioning effect they give, and their moist consistency all contribute to make Peebles' an ideal supplement to regular rations.

Genuine whey blocks help to settle pullets and hard-working layers when they're housed and when they're moved . . . help to ıtisfy them and avoid picking oubles.

Peebles' pays off during ıangeable fall weather, too . . . hen damp chilly days so often ing trouble. That's why you'll have a healthier, harder-working flock and fuller egg baskets as the weeks go by.

See your feed dealer for Peebles', and write Appleton for *free* folder SS-9. WESTERN CONDENSING COMPANY, Appleton, Wis.; Petaluma, Calif.

NOW WITH Vigofac

New growth factor for more dollar returns over feed costs.

Peebles' WHEY BLOCKS

FOR WET MASH FEEDING — Peebles' Poultry Fare is an emulsion-type whey supplement. A natural conditioner and health-promoter. Moist and appetizing, highly digestible.

FOR CALVES — Peebles' Super Calf-Kit milk replacer, with Terramycin and Aureomycin, replaces all milk after colostrum. Thermogized for fewer scouring troubles. Calves like it.

Lilly **REPORT TO CATTLE FEEDERS**

5,000,000 cattle prove 'Stilbosol' can slash your beef costs...

Cost of gain reduced 2 to 6 cents a pound
Cattle feeders report extra gains averaging 20%

By Eugene S. Hahnel

Now you can take a confident, new look at cattle-feeding margins. Beef supplements with 'Stilbosol' can cut your cost of gain. There's proof aplenty.

In less than a year, thousands of cattle feeders have seen test-tube promises jell into extra feedlot profits. Supplements fortified with 'Stilbosol' are delivering extra gains averaging 20% with frequent reports as high as 40%. Feed costs are being cut by 10 to 25% with cost of gain lowered from 2 to 6 cents a pound.

Rations with proper levels of 'Stilbosol' have put an extra ½- to ¾-pound gain per day on market cattle. Total gains have hit 3½ and 4 pounds per day for sustained feeding periods. Profit margins per steer have jumped as much as $25 to $30.

'Stilbosol' delivers benefits you can *weigh* and *sell*. As one veteran feeder put it—"It feels good to know we've got a beef gain-booster we can count on. 'Stilbosol' has given me new confidence in the cattle-feeding business."

Starting off at a fast pace, use of 'Stilbosol' has grown month by month. Estimates show that by September 1, 1955, over 5 million steers and market heifers had been fed 'Stilbosol' in their rations. More than one-third of the nation's cattle feeders had already used this gain-booster in their feedlots. Within nine months after it became available, estimates indicate more than one-half of the nation's feedlot cattle were getting 'Stilbosol' in their rations.*

That's said to be the most rapid adoption of a new practice in the history of American agriculture. Cattle feeders say 'Stilbosol' has made good in the feedlot because it has consistently helped them get *more* beef at *less* cost—under a wide variety of feedlot conditions.

Donald Mackay, Mt. Carroll, Illinois, was one of the first to test a supplement with 'Stilbosol' in farm feedlots. He used 116 head, placed twelve of them in a check lot without 'Stilbosol,' and kept careful records.

The steers getting 'Stilbosol' put on the biggest gains Mackay had ever seen in his 26 years of feeding cattle—3.46 pounds daily. They led the check lot by more than ¾ pound per day.

'Stilbosol' cut Mackay's cost of gain by 6¢ a pound or 25%, producing choice beef for less than 18½¢ a pound compared with a cost of 24½¢ for the check lot. Both lots topped the market at the same price, but the steers getting 'Stilbosol' made an extra profit of $27.15 per steer.

Since then, Mackay enlarged his feeding operations. Prior to his experiment, he was thinking of feeding fewer head. Commented Mackay, "The future for the cattle feeder looks a lot rosier, thanks to 'Stilbosol.' "

Neighbors were convinced when Aden Danielson of Leland, Illinois, made an 83-day comparison test. Danielson split a lot of 34 steers into two even groups. Both groups received the same ration under the same

*Estimates based on USDA figures for cattle on feed January 1, April 1, and July 1, 1955.

Mechanical feeding methods help the Ruser Feeding Co. fatten 10,000 head per year in their yards near Omaha. New yards under construction will give them capacity for 40,000 cattle a year. Supplements with 'Stilbosol' cut their cost of gain 2¢ a lb.

R. L. (Bob) Ruser, above, and brother, Dale, conducted a 140-day comparison test to check 'Stilbosol' benefits. "That sold us," the Rusers agreed. "We'll be using supplements with 'Stilbosol' in the future. Extra gains and lower costs mean $5 a head more to us."

Results from the Rusers' comparison test were convincing. A lot of 28 steers that got 'Stilbosol' averaged 2.78 lbs. daily gain—⅓ lb. more than the control lot. Feed cost per pound of gain was 24.5¢ in the control lot and only 22.5¢ in the lot fed 'Stilbosol.'

(Continued on next page)

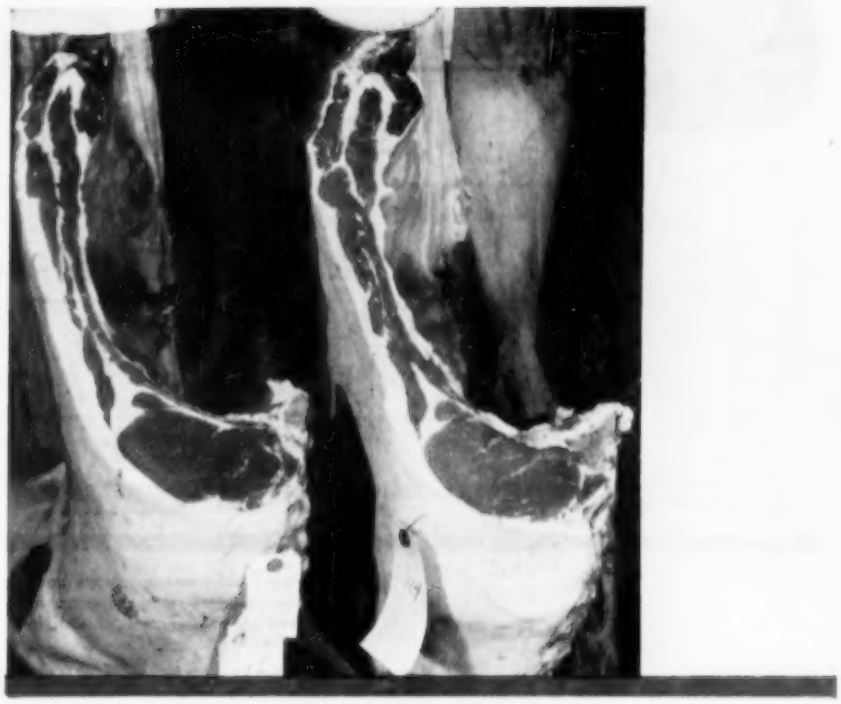
Lyle Smith, Nevada, Iowa, has been feeding supplements with the gain-booster to 700 head of steers and heifers. " 'Stilbosol' has helped cut my cost of gain by 2 to 3 cents a pound and I'm well satisfied," states Mr. Smith. "Gains are excellent. My cattle eat more and stay on feed better since we began using 'Stilbosol.' "

J. N. Wilkinson, Prescott, Arizona, is well satisfied with results from supplements fortified with 'Stilbosol.' His steers averaged 2.76 pounds gain per day. That's an extra half-pound or about 23% more than in former years. Wilkinson's cattle also used less feed per pound of gain, which helped reduce their total cost of gain.

Aden Danielson, Leland, Ill., split 34 steers into two even lots. The 17 head that got 'Stilbosol' made $320 more profit in 83 days. Gains increased 25%.

'Stilbosol'-fed steers made an extra $27.15 per head for Donald Mackay of Mt. Carroll, Ill. Daily gains averaged 3.46 lbs. Cost of gain was 6¢ a lb. less.

The Tysdahl brothers of Garden City, Iowa, have been feeding about 300 head a year since 1934. "We could see results as soon as we began feeding supplements with 'Stilbosol,' " reported Clarence Tysdahl. "We're putting on gains cheaper this year. Our daily gains have averaged about 3½ pounds per head with 'Stilbosol.' "



CONTROL LOT **'STILBOSOL'-FED LOT**

Excellent carcass quality of cattle fed 'Stilbosol' is another plus value. These carcasses are from animals fed the same ration for same length of time except that one group received 'Stilbosol.' Note better marbling, less wasteful outside fat, extra lean meat in 'Stilbosol'-fed carcass at right. In this test, cattle fed 'Stilbosol' graded U.S. Choice. Animals from control lot graded U.S. Good.

conditions except that one lot got 'Stilbosol' in their supplement and the other did not.

"The cattle fed 'Stilbosol' ate about 16% more corn than the control lot and stayed on feed better," noted Danielson. "We got 25% more gain with 'Stilbosol' and our cost of gain was 9% less. Most important, the 17 steers that got 'Stilbosol' made us $320 more profit than the control group.

"At first we didn't notice too much difference in the two lots of cattle," reported Danielson. "But, within 60 days, we could see a decided difference in the way they were shaping up. The steers fed 'Stilbosol' made .58 pound extra daily gain and did it for 2.13 cents a pound less."

Cattlemen who've fed heifers are equally satisfied. Glenn Rohlf of Odebolt, Iowa, had this report: "I fed a supplement with 'Stilbosol' to 84 market heifers. They gained an average of 2.94 pounds daily. Best gains we've ever gotten."

After feeding a supplement fortified with 'Stilbosol' to 30 steers for 100 days, Roscoe Prosser of Edinburg, Indiana, concluded, "My cattle gained a pound a day more than I've ever had cattle gain before. They gained 3.36 pounds per steer per day."

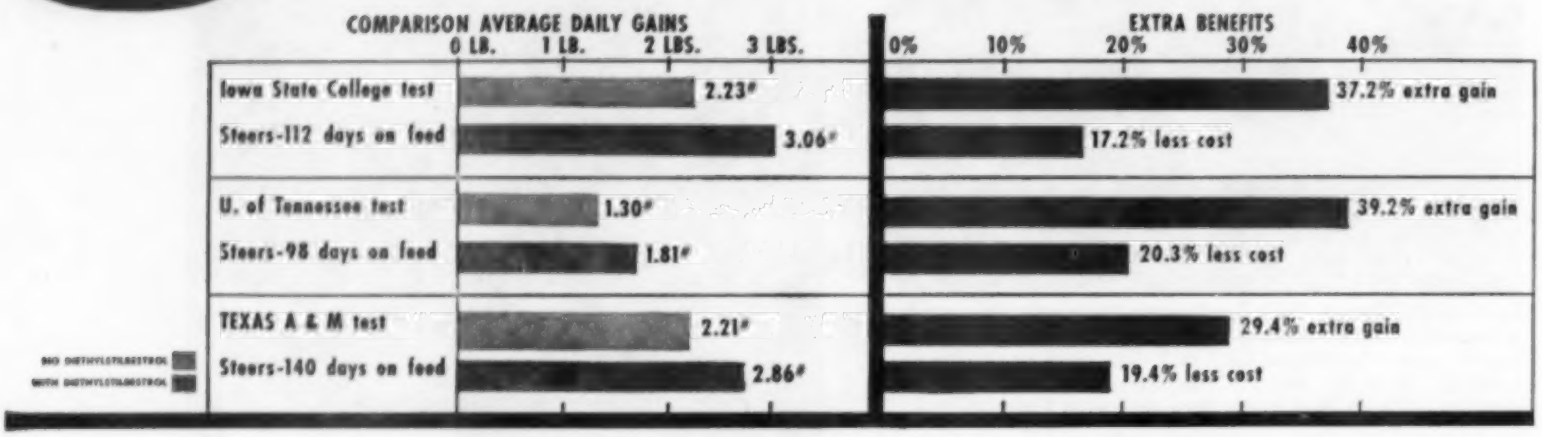
Satisfied, this seasoned cattle feeder with 30 years' experience then put 300 steers and 106 heifers on rations with 'Stilbosol.'

J. N. Wilkinson, Prescott, Arizona, put 75 Hereford steers on feed. His average daily gain was 2.76 pounds per steer, an extra half-pound or 23% more than in former years. Cost of gain was lowered.

Calves get sorghum silage. Oren Parish of Ruleton, Kansas—a few miles east of the Colorado border—fed a supplement with 'Stilbosol' to put cheap gains on 113 calves. Using sorghum silage, steam-rolled milo and 2 pounds of protein daily, he added 214 pounds of beef per head in 123 days. Cost of gain was only 17.2¢ a pound. Parish had a labor profit of $1184.52 after paying all other costs.

(Continued on next page)

REPORT TO CATTLE FEEDERS *(Continued)*



Numerous comparison tests have been conducted by state agricultural experiment stations to check the value of diethylstilbestrol in market cattle rations. The chart above shows the extra gains and lower feed costs achieved in feeding trials at the Iowa, Tennessee and Texas stations.

"I figure 'Stilbosol' mixed with my supplement saved me 4¢ per pound feeding cost. I got an extra half-pound per day more than with a previous bunch like this that didn't get 'Stilbosol.' To me, 'Stilbosol' makes the difference between profit and loss today in the feedlot," Parish stated.

Lyle Smith, Nevada, Iowa, has been feeding supplements with 'Stilbosol' to 700 head. He'd sold 300 of them, including heifers that had been fed 160 days. " 'Stilbosol' has cheapened my cost per pound of gain by two and three cents a pound and I'm well satisfied," Smith reports.

Astor C. Kilen, Jackson, Minnesota, fed 30 steers for 100 days for an average daily gain of 2.9 pounds per head. "The final weights fooled everyone. They were heavier than any of us guessed. I'm well satisfied."

Joe Wertz of Hartsville, Indiana, has fed cattle for 15 years but after feeding 'Stilbosol' to 54 steers he checked his records and flatly stated, "I made more money off this bunch than any I've ever fed."

Milo Cottrell, Vinton, Iowa, made an interesting observation after feeding 75 Angus steers for 200 days. "I took my cattle off 'Stilbosol' 30 days before market time. I could see an immediate drop in feed consumption and also a decrease in daily gain. I'll definitely feed it to steers again—next time, all the way."

Frank James, veteran 30-year feeder near Humboldt, Nebraska, reports an average daily gain of 3.86 pounds per steer during the 120 days they were on a supplement with 'Stilbosol.' His cattle topped the market.

H. E. Benson, Marshalltown, Iowa, reported his results with 'Stilbosol' after feeding 130 head for 115 days. Gains had averaged 3 pounds per steer daily. "We figure our cost of gain this year is about 5¢ a pound less. They got 'Stilbosol' beginning March 1st. That's when we really saw our cattle start gaining. We wish we had started feeding it sooner."

Albert Arth, Troy, Illinois, placed 46 head on a supplement with 'Stilbosol' just as soon as he could get it. In 82 days they gained 305 pounds each for an average daily gain of 3.7 pounds. Arth observed that his steers became quieter, had sharper appetites and gained much faster after he began to use the gain-booster in his ration.

"These steers topped the market and sold as choice grade to a major packer. 'Stilbosol' is a great thing for the cattle industry and certainly came at the right time. We needed those economical gains to make a profit this year," observed Arth.

Feeders generally agree that cattle getting 'Stilbosol' gain faster, gain more, eat more, stay on feed better, are quieter, founder less often, weigh more than expected, make lower-cost gains, dress out well and hang up excellent carcasses.

Veteran feeders offer two suggestions — For best gains, cattle should have a well-balanced ration, ample protein, and all they want to eat. Then, feed your cattle as many days as usual. Sell more pounds of high-quality beef.

'Stilbosol' has stimulated gains and cut feeding costs under a wide variety of feedlot conditions. If you aren't feeding a supplement fortified with 'Stilbosol' to your market cattle, you should consider doing it. Your feed dealer can supply you. 'Stilbosol' can help you get *more* beef at *less* cost and, in that way, help you increase your beef feeding profits.

'Stilbosol' is Eli Lilly and Company's trademark for Diethylstilbestrol Premix, Lilly. 'Stilbosol' is the only such premix compounded under license from the Iowa State College Research Foundation, Inc.

Stilbosol

(Diethylstilbestrol Premix, Lilly)

ELI LILLY AND COMPANY, AGRICULTURAL PRODUCTS DIVISION, INDIANAPOLIS 6, INDIANA

Plants near radioactive source fail to grow. Source moves down pipe into lead chamber so worker can check plants. Five minutes near exposed source would give fatal dose of radiation to worker.

Grass type plant came from corn thru mutation. With radiation, it may return to corn. Such work is aimed at learning more about history of corn.

Atoms work for farmers

YOU'LL find the "hottest" farm in the country out on Long Island not far from New York City.

Brookhaven National Laboratory for study of atomic energy is located there. It is operated by nine eastern universities under contract with the Atomic Energy Commission.

Work includes engineering, physics, chemistry, medicine and biology. Medical section includes a research hospital where there's hope for curing at least some types of cancer.

So far, most biology work is on crops. But there's promise for animals, too. Sperm can be exposed to radiation and then used for artificial insemination. Already, radiation seems to help rats learn faster and remember better.

Short hybrid corn that stood up during a hurricane has been developed. Disease resistance has been added to commercial oat varieties. Lawn grass that never grows more than a couple inches high looks possible, workers believe.

Main purpose of Brookhaven is to find out how much, what kind and when to apply radiation for best results.

For more about atomic energy in agriculture, see page 32.

Bud mutation could be valuable. All Golden Delicious apples trace to single bud mutation. Calvin Konzak, left, and Ralph Singleton, right, of laboratory staff with field editor Al Bull.

Soybean seed is prepared for radiation in Brookhaven reactor by Dr. Seymour Shapiro of laboratory staff.

Portable corn field checked by Dr. Ralph Singleton of laboratory staff. Radiating plants about a week before pollen is shed seems to give most mutations. Plants are moved to source. Then back to field to supply pollen for female inbred plants.

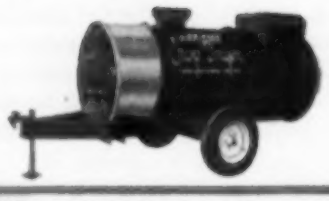
LENNOX DRYING EQUIPMENT

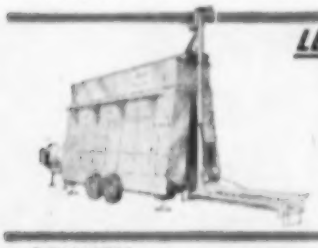
FAR MORE PROFIT YEAR 'ROUND

LENNOX Crop Dryer...

- Indirect Oil Fired or Direct Fired LP or Natural Gas
- Automatic High Capacity Drying of All Crops at Low Cost

This portable Lennox Crop Dryer is 100% safe in operation. Special control watches heat exchange temperature. No smoke enters crop. Perfect for winter heating, too.





LENNOX BATCH DRYING BIN

- Dry 75 to 600 Bushels of Any Grain at a Time
- Prestressed Aircraft Design—300 or 600 Bu. Models

Here's a new recirculating batch bin that keeps ahead of the best picker-sheller unit. You buy only the parts you need. Use indirect oil fired or direct fired LP, natural gas.

LENNOX BARN VENTILATORS

- New Low Price For High Capacity 16" or 21" Complete Units
- Automatic and Standard Models For Barns, Hog and Poultry Houses

These Lennox Deluxe Ventilators are easy to install and completely wired—just plug into any outlet. Special shutters keep weather out year 'round. Complete quiet control of temperature and humidity.

"From the folks who know crop drying best"

LENNOX
FARM EQUIPMENT DIVISION
DES MOINES, IOWA

Complete Line of Lennox Crop Drying Equipment
Grain Aeration Fans • Wagon Box Drying Units • Portable Heating Units • Hay Drying Fans • Crop Dryers • Batch Drying Bins

FREE! CROP DRYING MANUAL—
FREE! FARM BUILDING VENTILATION MANUAL
SEND FOR NEW REVISED 1955 EDITION
THE LENNOX FURNACE COMPANY
Farm Equipment Division • Dept. 205, Des Moines, Iowa

YES, send me the new Lennox Crop Drying Manual. ☐
I'm also interested in the Lennox Barn Ventilation Manual ☐
☐ Lennox Crop Dryer ☐ Lennox Batch Drying Bin ☐ Lennox Barn Ventilator
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Narrow leaves and extra tillers are due to radiation of small grain seed. Dr. Calvin Konzak of laboratory staff was looking chiefly for disease resistance changes.

How atoms work for farmers

Here are some ways atomic energy is being used in agricultural research

To keep up with the latest developments in agriculture, Field Editor Al Bull went to Brookhaven National Laboratory. Here is his report:

EFFECTS of atomic energy are moving to the farm.

At Brookhaven National Laboratory on Long Island near New York City, radiation is proving itself a valuable tool for plant breeders.

Effects of radiation have been known for at least 25 years. Several years ago, Swedish workers developed a barley with dense heads and stiff straw thru mutation caused by radiation.

The mutant variety averaged 11 percent more grain than the parent variety. And it did extra well in dry years.

From there, interest began to build up in this country.

Now, a few seeds of Mohawk oats showed resistance to Race 7A rust after radiation. Otherwise, they kept the good characters of the variety.

Helminthosporium blight knocked many Corn Belt oat varieties for a loop a few years ago. Tama variety was susceptible. Recently, resistance was added to a few Tama seeds by radiation-induced mutations.

Sometimes, radiation adds disease resistance in one season. The usual back cross method takes several years. It offers a good means of saving otherwise good varieties.

Races of rust change thru mutation, too. That's why oats keep getting hit by new rusts every few years.

By exposing rusts to radiation, maybe breeders can get an advance look at races of rust yet to occur in nature. Radiation seems to produce the same mutations that occur in nature—but at a much faster rate. That way, resistance could be bred into small grain varieties before a race of rust could get serious.

Other characteristics of small grains can be changed, too. Differences have been noted in height, yielding ability, stiffness of straw, leaf type, amount of tillering, maturity and the like.

Corn is getting intensive study, too. Sugar content and color of kernels can be changed easily.

Most inbreds can be shortened by radiation. Dwarf hybrids have a higher grain to stover ratio. They stood thru two hurricanes that flattened regular hybrids.

Soybean mutations are being checked for oil content, disease resistance and easier harvest. Already, a peanut variety with 30 percent higher yields has been developed.

These mutations all come within cells. Each cell contains units of inheritance called genes. These are strung out in rod-like groups called chromosomes.

Radiation changes either genes or chromosomes. Change is passed on to daughter cells.

Normally, there may be one mutation in 1,000 seeds. And about one mutation per 1,000 is useful.

With radiation, mutation rate is stepped up perhaps 100 times. So instead of one useful mutation per million seeds, you get one in each ten thousand.

The near future may hold portable radiation equipment priced within the range of any research station. There's no doubt that radiation-induced mutations will soon be a part of crops grown on your farm.

Livestock nutritionists said "The Vigo Factor, newly discovered growth-promoting feed ingredient, gives faster gains than ever possible before." Now growers are reporting . . .

"PIGS READY TO MARKET IN 4½ TO 5 MONTHS"

Growers' results with their first crop of pigs raised on feeds containing The Vigo Factor show how to make more profit on your fall pigs

"Best pigs we've raised . . . and with lower feed costs. Looks like Vigofac will save us 4-weeks feeding!"

Wayne Bellmeyer, Plattville, Wisconsin, (22 miles N.E. of Dubuque, Iowa)

Wayne Bellmeyer and his dad, Donald Bellmeyer, had just farrowed 54 late January and early February pigs when Vigofac was announced. Wayne decided to try it out and dad kept an experienced eye on costs and results. They started these pigs on a Vigofac-fortified feed at 3 weeks.

"They grew faster right from the start, than any bunch of pigs we ever had," said Mr. Bellmeyer. "Vigofac is saving feed costs and giving us better quality animals. We expect to market these pigs at 4½ to 5 months!"

When this picture was taken on May 23, the pigs were right on schedule.

When Pfizer scientists announced Vigofac early this year, it already had 3 years of testing and development behind it. On the basis of these tests Pfizer said you could reasonably expect up to 20 extra pounds of pork per pig in the same feeding time. Or, you could save up to 10 feeding days to market.

But the real test of any new feeding development is in *how well it performs on the farm.*

Reports on Vigofac are now coming in from all over. And hog and poultry producers are reporting even better results than the scientists.

The reason, of course, is that they're getting The Vigo Factor in fine feeds that also contain antibiotics, vitamins, minerals and other ingredients needed for the fastest, most economical gains.

Vigofac simply adds *still more gain* on top of these good gains—and gives you these extra gains at a lower feed cost than ever possible before!

Broiler grower reports *"Most meat we ever put on birds in 10 weeks."* Lorenz Gaddes of Glenwood, Minn., raises 50,000 broilers a year, figures cost of feed to pound of gain to the last decimal point. Vigofac is giving him faster gains than ever before at lower feed costs.

ASK FOR FEEDS CONTAINING

Vigofac

TRADE MARK

a product of

Pfizer

Chas. Pfizer & Co., Inc.
Brooklyn 6, N. Y.

This fall
PLOW DOWN
VITREA
LEACH-RESISTANT UREA NITROGEN

Now available at competitive prices — urea nitrogen which converts to leach-resistant ammonia when added to the soil.

5 reasons why you should use Vitrea this fall:

1. 45% nitrogen . . . fewer bags to handle
2. A preferred form of nitrogen for decay of crop residues
3. Avoids "mudding" through fields next spring
4. Promotes formation of active nitrogen-rich humus
5. Reduces work load next spring

Remember:
Once you've used Vitrea, you'll never accept a substitute.

Write for free Vitrea sample and fall fertilization folder.

45% NITROGEN

JOHN DEERE QUALITY CHEMICALS

Grand River Chemical Division of
DEERE & COMPANY
2010 SOUTH UTICA • TULSA, OKLAHOMA

Yes vote for school check-up comes from James J. Tapper, Franklin county, Iowa.

School check-up

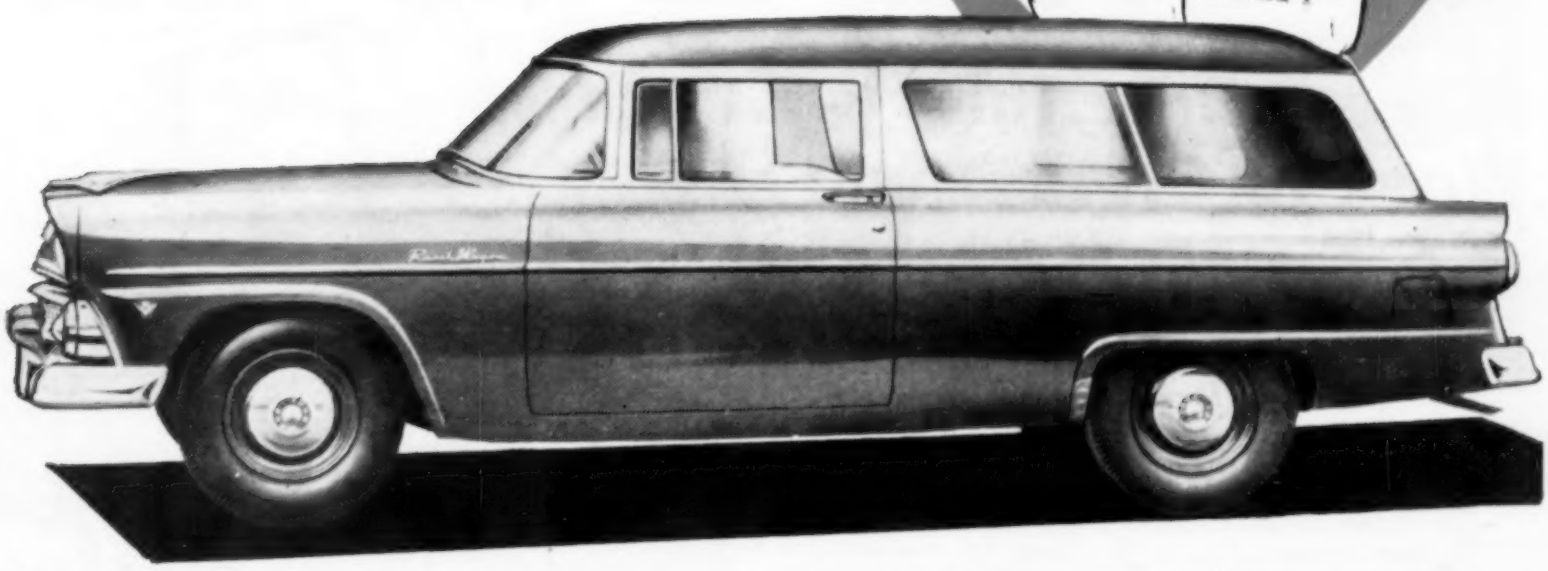
MORE farm people than ever this fall sent their children for a physical check-up, including eye and ear tests, before school started.

The Wallace-Homestead Poll found that 92 percent of all the people interviewed were in favor of the practice. Men and women gave the proposal about the same backing.

Another yes vote from Mrs. Emil Hansch, Calhoun county.

Agreement with majority also comes from Mrs. Richard Ottoson of Webster county.

NEW FORD RANCH WAGON for naming twin calves



51 other big prizes to dairymen from General Mills

Unusual contest introduces new Larro calf-raising plan

Here's a unique calf-naming contest with big prizes for dairymen who try Larro SureRaise.

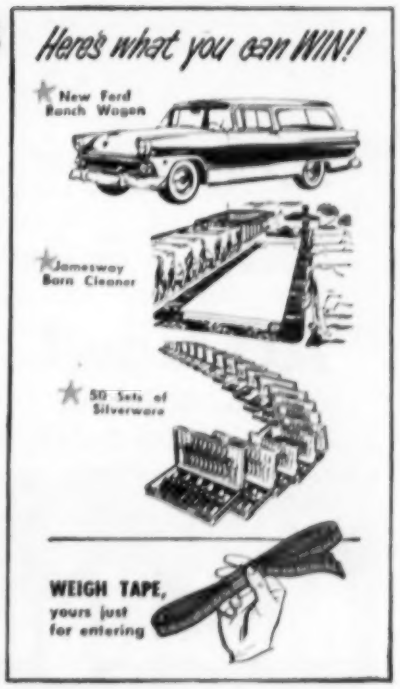
The *contest* is easy to enter and fun for the whole family. Name Larro's husky twin heifer calves, and you may win a new Ford Custom 8 Ranch Wagon . . . a Jamesway Shuttle-Stroke barn cleaner, "tailor-made" to your barn . . . or one of 50 beautiful 52-piece sets of Wm. A. Rogers Capri pattern, triple-plate silverware, each in a handsome Chelsea Chest of solid wood.

What's more, you get a Larro weigh tape from General Mills just for entering . . . a tape that gives a calf's weight from its heart girth.

Second bonus — and even more rewarding — is Larro's new calf-raising plan. This new method already has proved it can grow calves 26% faster than accepted standards. It helps overcome many common calf-raising problems (including scours) and gives you healthy, strong-boned calves at lower cost.

Your Larro SureFeed dealer has complete details on this new way to raise better calves . . . plus the official entry blank you'll need for entering Larro's prize-packed, calf-naming contest. See your Larro dealer soon. Contest closes October 31.

General Mills, Minneapolis 1, Minnesota



New twin Larro feeds offer double benefits

When a calf dies before maturity (20-25% do), your loss is sizable. When a calf lives but fails to develop full milking capacity (20-50% are undernourished), your loss is multiplied over a long period. That's why Larro dairy scientists spent years to develop and test a plan that helps overcome these losses. It includes two revolutionary new feeds: Larro SureRaise pre-starter and Larro SureCalf starter. Together they make a powerful feeding combination that "super-nourishes" calves while protecting them from scours and other digestive hazards. Larro SureRaise is fortified with a natural scours-fighter called Pectin . . . plus Aureomycin for extra disease protection.

SureCalf is a potent bone and muscle-builder with new appetizing texture. Results are significant. At Larro Research Farm, calves on the new Larro plan grew 26% faster. They started chewing their cuds when only 12 to 14 days old . . . a sure sign they already were making good use of roughage. Not a single calf was lost on the Larro program.

Start getting these extra benefits of fast growth and healthy calves now. Your Larro SureFeed dealer can show you how.

No Matter What
They Dream Up Next—

It's time NOW to Save 3 Ways...

DON'T DELAY

Make a Date This Week to Order Your
'56 Farm Needs!

Ask for our
Special Future Order Plan!

1. Liberal Discounts—from list prices on famous Mobil Farm products are available when you order your 1956 farm lubrication needs in advance.

2. Price Protection—If prices rise before delivery, you pay the lower price. If they fall, you pay the lower price.

3. Top-Quality Products—give your farm equipment the finest lubrication protection possible—save on wear and repairs. Mobiloil—the super-detergent heavy-duty oil . . . Mobilgreases—stay put even under shock loads . . . Mobilube Gear Lubricants—guard against scuffing wear. There's a Mobil Lubricant for every farm need. Save in '56—order today sure.

Act Now!
Special Offer for Limited Time Only!

CALL YOUR
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Visits with your vet

When You Pick Gilts For Breeding

Gilts that you are going to keep for breeding should be removed from the fattening pens and put on a good growing ration.

If you marked litters when they were farrowed, then you know the size of the litter from which they came.

A long meat-type gilt with seven, or preferably eight, pairs of teats will be able to nurse large litters better than a short, chunky gilt.

It's a good idea to mark any pig that suffered enteritis or other disease during its growth period. Another good idea is to blood test all gilts for brucellosis and leptospirosis before they are bred.

Chiggers And Why They Itch

A chigger doesn't burrow into the skin. He merely sucks blood.

Chiggers usually attach themselves to the skin at the base of a hair. There they inject a fluid into the skin. This fluid causes the itching.

Jowl Abscesses Hit Hog Herds

Several herds of swine have suffered abscesses around the jaw and throat. A high percentage of the animals in affected herds became infected.

Research has shown that the abscesses are caused by a streptococcus organism. Apparently the infection is on the farm and can be carried by breeding stock.

Antibiotics and organic iodine have cut down the herd infections and reduced the condemnation of heads. But strict sanitation and breeding stock free of the disease are needed to eliminate this trouble completely.

If You Find A Stiff Lamb

A number of farmers have found lambs in a stiff, paralyzed condition. Many causes have been involved.

Stiff lambs (or White Muscle) disease, erysipelas, tetanus, and enterotoxemia have all been found to cause these deaths.

So don't dismiss a dead lamb as a small matter. It might be the start of a flock disease.

Foot Rot In Feeders

Few cases of foot rot in cattle act the same. Veteran cattle feeders will tell you that for some cases, a foot bath will give control. In other cases, individual treatment and even amputation of the claw is necessary.

It pays to watch cattle closely for signs of foot rot. Many feeder cattle have come from hot dry ranges. The change to damp, cool pens may increase the chance of infection. As soon as an animal limps, take care of the trouble.

A foot bath at least four inches deep containing a mild solution of stock dip or copper sulfate will help prevent foot rot.

Some feeders who have a high spot in their yards spread finely ground limestone on this spot where cattle like to stand. The limestone acts as a drying agent and helps prevent infection.

About livestock . . .

1. Urea should not be fed to young calves.

2. Rabies has been found in all domestic animals.

3. Blood in the milk is not always due to mastitis.

4. Cholera, erysipelas and salmonellosis are the worst three hog diseases.

5. An animal with horns in the feedlot can cause damage equal to a loss of 10 pounds of meat on every other animal in the lot.

"I'm kinda glad I put a foam rubber pad on the milking stool I gave her for her birthday."

"I've tried other brands," says cattleman Joe Weedon, *"but I always come back to Luckies. There's a big difference in taste—Luckies taste better. I've smoked Luckies for 28 years, and I know."*

Luckies taste better, first of all, because Lucky Strike means fine tobacco. Then that tobacco is *toasted*. *"It's Toasted"*—the famous Lucky Strike process—tones up Luckies' light, mild, good-tasting tobacco to make it taste even better . . . cleaner, fresher, smoother. So light up a Lucky. You'll say it's the best-tasting cigarette for miles around.

LUCKIES TASTE BETTER

Cleaner, Fresher, Smoother!

© A. T. Co. PRODUCT OF *The American Tobacco Company* AMERICA'S LEADING MANUFACTURER OF CIGARETTES

Here are three good reasons WHY:

There's more American Fence in use than any other brand!

"I don't know where you'd get better fence than American"
Hersil E. Scott, Huntington, Indiana

"My father used American Fence on his farm and I use it too. Some of it has been up as long as I can remember"
Guy A. Radcliffe, Wellington, Ohio

"My whole family uses American Fence. We find it's easy to stretch. It stays stretched tight, too"
Glen Thompson, Huntington, Indiana

America is full of farmers like these . . . men who have used American Fence for years and years . . . men who buy it again and again because they *know* from experience that they can depend on it to last.

Farmers favor American Fence for many reasons. One of its most popular features is the deep, rugged tension curve. Stretch American Fence tight, and it *stays* tight – the tension curve doesn't pull out at the first sign of pressure–through varying weather conditions it's there to keep the fence taut.

The line wires are soft enough to splice, yet hard enough to retain their tension curves. Stay wires won't slip, either. They are wrapped into secure hinge joints with the line wires at every intersection. And their heavy galvanized coating protects the full gauge wires from rust and corrosion in all kinds of weather.

Why take a lesser brand when you can get American Fence? Next time you visit your dealer–whether it be for steel fence posts, steel gates, poultry netting, or barbed wire–buy "American" brand. It's your assurance of years of economical, trouble-free service.

SEE The United States Steel Hour. It's a full-hour TV program presented every other week by United States Steel. Consult your local newspaper for time and station.

USS

AMERICAN FENCE AND POSTS

Send for this FREE literature

American Steel & Wire Division
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Please send me, your FREE booklet—
"How to Build GOOD Farm Fences!"

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AMERICAN STEEL & WIRE DIVISION, UNITED STATES STEEL
GENERAL OFFICES: CLEVELAND, OHIO
UNITED STATES STEEL EXPORT COMPANY, NEW YORK

UNITED STATES STEEL

Iowa troops fought hard at Shiloh. Here is a picture of part of the Iowa monument. The figure of Fame is writing the names of the Iowa regiments—eleven of them—that were in the action.

Fall auto trip

IF YOU plan on a fall vacation, think about mixing history and scenery in a trip thru Missouri, Kentucky and Tennessee. Drive south thru Missouri to Hannibal (Mark Twain's town). Then cross the Mississippi and the Ohio, and hit the Tennessee river at Ft. Donelson.

Drive south on the east side of the river to Shiloh battlefield—a few miles north of Corinth, Mississippi, where federal troops under Grant and Sherman slugged it out with Confederates under Johnston and Beauregard in 1862.

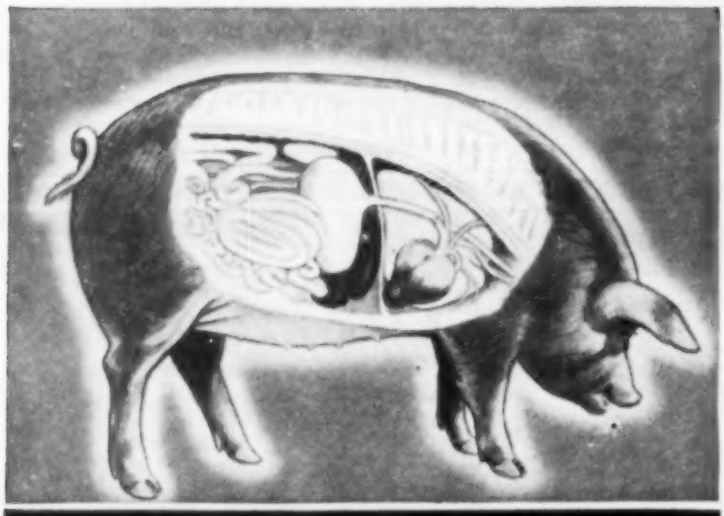
Steamboat at Pittsburg Landing, where Grant's men landed, pushed on toward Shiloh church, were thrown back in fierce fighting. This landing was the key point of the battle. Thru it came supplies and reinforcements.

Final stand of federal forces was near the landing. Confederates tried to swing around on the federal left, capture the landing, cut the army off from supplies and reinforcements. Grant scraped the field for artillery, lined up field pieces as shown here and beat back the final Confederate drive. (Photographs by National Park Service.)

Amazing New Scientific Discovery in Drinking Water

ENDS PIG SETBACKS

Due to Scours, Necro, Diarrhea, Bronchitis, Pleurisy, Anemia, Shipping Fever, Fights Pneumonia



Works Like Lightning In Sick Pigs to Stop Scours Necro Faster. Keeps Pigs Gaining Weight...Fights Off Pneumonia, Bronchitis Pleurisy, Diarrhea, Anemia, Shipping Fever

MYZON SWINE BUILDER . . . just released from the laboratory after many months of patient testing . . . not only STOPS INFECTIOUS SCOURS, NECRO faster but **more important** . . . keeps pigs gaining weight. This wonder-working discovery fights off **Pneumonia, Bronchitis, Pleurisy, and Shipping Fever** to get results in less time than you dreamed possible. Yes, MYZON scientists have finally achieved their goal: — a sensational formulation of powerful anti-biotic and vitamins that gets **double-action!** — for MYZON SWINE BUILDER stops SCOURS, NECRO faster than you can imagine—but **most important,** it keeps pigs gaining weight fast. So it's easy to see why MYZON SWINE BUILDER is being hailed as the final answer to the knotty problem of INFECTIOUS SCOURS, NECRO, PNEUMONIA, PLEURISY, SHIPPING FEVER, DIARRHEA, ANEMIA by pig raisers wherever it's been introduced. Remember, that scours is often a danger sign of the approach of other diseases. It is important that animals be treated at the first sign of loose bowels, failure to eat or drink, dullness, and other symptoms common to these diseases. Keep Myzon Swine Builder on hand, ready for emergencies! Get it TODAY — from your favorite dealer!

MYZON SWINE BUILDER GETS PIGS 'Going Again—Gaining Again'

Not Merely a Scour Medicine, Myzon Gives Pigs the Strength and Resistance to Help Keep Scours from Coming Back

No matter how carefully you study about new products—no matter how many farm journals you read every month, you've never heard about anything like sensational MYZON SWINE BUILDER. For MYZON is entirely different from anything you've ever seen! NOT MERELY A SCOUR MEDICINE that may leave hogs too weak to start gaining again, instead, MYZON gives your pigs the strength and resistance they need to help keep scours from coming back. Yes, MYZON SWINE BUILDER has the power to stop scours, also known as Vibrio Dysentery, Necro, Necrotic Enteritis, Salmonella infections, Black Scours, Bloody Diarrhea, Bloody Dysentery, Bacillary Infections associated with Virus Diseases. MYZON'S powerful formula of anti-biotic and vitamins (exclusive in MYZON) goes right to the intestinal tract—and once there takes charge of these disease germs quick as lightning! Where else do you get the promise of MYZON'S amazing double-action that can STOP SCOURS, DIARRHEA faster . . . fights off PNEUMONIA, BRONCHITIS, PLEURISY, SHIPPING FEVER, ANEMIA—AND GIVES YOUR HOGS THE RESISTANCE THEY NEED TO HELP KEEP SCOURS FROM COMING BACK! And here's the most important part! Best of all, MYZON SWINE BUILDER not only stops scours—but keeps pigs gaining weight. And don't forget this, MYZON is highly recommended because it is so safe to use. When administered as directed, it is practically free from irritation and undesirable side-reactions. So find out! Ask your dealer for MYZON SWINE BUILDER today!

GOES IN DRINKING WATER!

You Don't Change Your Feeding Program

Costs So Little It's Wonderful!

Since MYZON SWINE BUILDER comes to you in such a highly concentrated form, only a little goes a long, long way. Water — dispersible — you simply put it in the drinking water. YOU DON'T CHANGE YOUR FEEDING PROGRAM. There's all the directions you need! And when you remember that MYZON SWINE BUILDER is helping to put pound after pound of profitable pork on your pigs even while it's taking charge of these disease germs, you'll realize how really inexpensive it is. So get MYZON today!

Now for the First Time, a Way to Keep Even Sickest Pigs Eating and Gaining Right Through Damp, Changing Weather

In the past, hogs were so affected by scours that they often lost weight and barely ate enough to stay alive. BUT NOT WITH NEW MYZON SWINE BUILDER! MYZON'S high potency antibiotic and vitamins quickly get to the cause of trouble in the stomach and intestines. Pigs that might have lost weight and even died, come back faster, eating and gaining their way to early markets.

Gets Slow-Doing Hogs Gaining Fast Again!

There's nothing more discouraging than having 4 or 5 hogs out of your herd that just seem to stand around doing nothing. They're not sick, yet they don't gain an ounce. In fact, sometimes they seem to be going backward.

Imagine then getting these "backward hogs" gaining weight faster — PRACTICALLY OVER-NIGHT . . . and so easy, it's amazing.

ALTHOUGH INDIVIDUAL EXPERIENCE MAY VARY, YOU MUST BE 100% SATISFIED WITH YOUR VERY FIRST CAN OF MYZON SWINE BUILDER OR YOUR MONEY REFUNDED.

UNIVERSITY TESTS PROVE MYZON'S Potent Ingredients in Water Go to Work in Hog's System 2 to 3 Times Faster

All of us will agree that the faster a treatment gets into the system, the better the results. Sometimes it can mean the difference between live and dead hogs—between handsome profits and heart-breaking losses. Leading university tests proved that the ingredients in MYZON mixed in drinking water start working right away to quickly help clear up these attacks, and to keep pigs and hogs gaining weight—to help keep them putting on pounds while it combats disease germs of pneumonia, bronchitis, pleurisy, shipping fever! So take advantage of science's latest discoveries! Get MYZON SWINE BUILDER today!

YOU DON'T CHANGE YOUR FEEDING PROGRAM

All you do is give these poor-doing hogs famous, tested MYZON SWINE BUILDER in their drinking water. NO FUSS, NO BOTHER! NO EXTRA FEED MIXING. And what a tremendous difference you'll find when MYZON'S exclusive formula goes to work. You'll see the results of MYZON'S wide-spectrum antibiotic and high potency vitamins almost overnight. Yes, in a few short days, your slow-doing hogs will show a complete reversal of form—you'll find them more vigorous, drinking more water, putting on weight to your complete satisfaction.

Yes, if after using the very first can of MYZON SWINE BUILDER you're not 100% convinced that MYZON does everything promised, return for your money back. Could anything be fairer? So find out TODAY . . . get MYZON SWINE BUILDER . . . at good dealers everywhere.

BRAND NEW, Yet Tests On Farms Showed These Amazing Results

"FIRST TIME IN YEARS NO SCOUR TROUBLES"

"I have been troubled with Scours in my baby pigs for a number of years. This year I used Myzon Swine Builder in the water for my Brood Sows. I started using Swine Builder from a few days before farrowing. This is the first time in several years that I have not been troubled with Scours in my young pigs. I definitely feel that I owe this to Myzon Swine Builder."

Cecil Gray, Watseka, Illinois

"STOPS SCOURS . . . PIGS AVERAGE 52 LBS. AT 8 WEEKS!"

"I fed 200 pigs that were four weeks old 16 pounds of MYZON SWINE BUILDER. They had the scours very bad. They stopped scouring in three to four days. These pigs averaged 52 lbs. at eight weeks. I think MYZON SWINE BUILDER is a very good product."

Fred H. Scott, Tampico, Illinois

Don't Wait and Have Regrets

See Your Local Dealer Today About New

MYZON SWINE BUILDER

MYZON POULTRY BUILDER in Drinking Water Helps

STOP LAYING SLUMPS!

In Birds Off-Feed with Colds, Sniffing due to Chronic Respiratory Disease (Air Sac), Non-Specific Enteritis, Blue Comb, Rickets.

Science says many LAYING SLUMPS are due to Chronic Respiratory Diseases brought on by changing weather. But now—with amazing new MYZON POULTRY BUILDER—and for only a few cents a bird per month—you can help get those many extra eggs that are lost to bronchial troubles associated with Respiratory Disease, and diseases of the digestive system.

SO EASY! YOU DON'T CHANGE FEED!

MYZON POULTRY BUILDER comes to you in highly concentrated form. Water-dispersible, you simply put it in drinking water. NO FUSS! NO BOTHER! Like humans, most birds stop eating when sick and feverish, but they actually DRINK MORE than usual. Thus quickly getting plenty of MYZON'S exclusive high-potency formula right where it's needed to take charge of these disease germs . . . to strengthen birds . . . hurry them back to higher egg production. MYZON POULTRY BUILDER WORKS FAST AS LIGHTNING. Use at first sign of trouble. Get MYZON POULTRY BUILDER from your dealer today.

READ WHAT USERS SAY:

"MYZON BOOSTS PRODUCTION FROM 16 TO 90 EGGS DAILY"

"I am using my third can of MYZON POULTRY BUILDER with my flock of 150 layers. I started in November when my egg production dropped to 16 eggs per day. Within 3 weeks after starting with MYZON POULTRY BUILDER, we are getting 84 to 90 eggs daily and the production is still on the increase.

"Perhaps this letter will help someone else in getting their hens out of laying slumps."

Mrs. L. O. Butler, Marion, Iowa

"No Egg Slumps Even In Coldest Weather"

"When I started using MYZON last fall my pullets had awful colds and were just laying 8 eggs a day. I got MYZON and it sure done the job in a hurry. Before long they were better and laying from 75 to 90 eggs a day. I use it all the time and have no egg slumps even in the coldest weather."

Mrs. Arthur Bell, Bowen, Illinois

MYZON, INC. DEPT. S, 3129 W. 47TH STREET, CHICAGO, ILLINOIS

New ideas on crops and soils

Leading crop and soil scientists from all over United States and some foreign countries gathered in California last month for the American Society of Agronomy meetings. Here are some of the things they talked about:

USE 2,4-D in bean fields? Some California growers are doing it. It has given a big increase in yields by controlling weeds, too.

An arch of canvas or tin moves along over the row and shields the beans from the 2,4-D spray. Areas between rows are covered to prevent drift of the spray materials.

The same method has been used to apply weed killers in cotton, alfalfa grown in rows and other seed crops in California.

Vitamin C

Maybe vitamin C, or ascorbic acid, is part of what makes plants winter hardy.

Texas experiment station scientists found that winter hardy wheat and oat varieties retained a higher ascorbic acid content during the early stages of growth. That's compared with the spring varieties.

This same character may also be related to resistance to stem rusts, the workers think. Plants with the higher ascorbic acid content seemed to have more resistance to the stem rusts.

New weed killers

Two new selective weed killers look promising for controlling many annual grasses and broadleaf weeds without injury to corn or beans.

The chemicals belong to two different groups — chloro-acetamides and thio-carbamates. They are now being field tested at stations thru the country. If they continue to do as well as in the first tests, they will be released for farm use shortly.

Cross wheat, grass

Leaf rust resistance has been transferred from a wild grass to wheat.

But the process wasn't easy. And a lot of work lies ahead before the resistance is useful to commercial wheat producers.

The wild grass was too distant a relative of wheat to make a direct transfer of the leaf rust resistance. So it was first transferred to emmer wheat. Then the offspring of this cross was crossed with common wheat.

The plant obtained from this work had some weaknesses. So it was exposed to X-rays to induce genetic changes.

Over 6,000 seeds were obtained from this strain. When tested for leaf rust resistance, 16 showed that resistance had been transferred.

None of the 16 lines have all the other qualities needed in commercial wheat. So the rust resistance still has to be combined with other desirable qualities into one variety.

Breeders are working on that now.

Breeding new grasses

Crop breeders are turning more of their attention to disease resistance in grasses and legumes, says Glenn Burton, Georgia crop breeding specialist.

Crosses between species will let farmers get the benefits of hybrid vigor, too.

Increased efficiency in use of water and plant food will also get more attention in the future, Burton thinks.

Water movement

Amount of water in a soil determines how water moves thru that soil.

Take a soil that is fairly dry. Water moves into it by capillary pull of soil pores—much like ink is sucked into a blotter. So when water moves into dry soil from an irrigation ditch, it moves to the sides as well as down. The wet area forms an onion shape.

But when the soil is nearly saturated with water, additional water moves downward chiefly by the pull of gravity. Then there's little sideway movement.

"Irrigation has really paid off for me. You should have seen the first cutting."

We think this hog raiser's got something!

Likes a milk by-product as a conditioner

I don't have skim milk to feed any more; and slop feeding whey or buttermilk is too much trouble. But still I like to give my hogs some kind of milk by-product conditioner. So this vitamin-boosted whey product in a block is the answer for me.

I like to feed a milk by-product because hogs do better. They did better with milk when rations were simple, and they still do better even with the new things like antibiotics in the ration.

To my way of thinking, whey acts as a booster for all good hog rations. It aids in preventing setbacks due to bad weather, disease and other troubles. It's got plenty of natural lactic acid in it, and that's the best conditioner I've found. Makes 'em do well from weaning to market.

Whatever the reason, hogs like to chew on Peebles' Hogblocs. They put on good solid gains, and are less trouble to raise. I wouldn't want to raise a bunch of hogs without these blocks now!

NEW WHEY-VITAMIN BLOCKS FOR HOGS!

For hog the benefits of whey but who don't like the bother

This new 50-lb. Peebles' Hogbloc is custom-built for hogs . . . can be self-fed as easily as a block of salt. It's plenty firm so hogs won't overeat . . . will withstand summer heat, winter cold and rainy weather; yet hogs can eat what they need by chewing the edges.

Peebles' Hogblocs are made of a vitamin-fortified whey compound that gives hogs the benefits of whey without the bother of slop feeding. All the conditioning effects of 60 gallons of fresh liquid whey are packed in this one easy-to-feed block. Added vitamins give it even more feeding benefits. These vitamins include B_{12}, D_2, niacin, riboflavin plus natural milk vitamins that help take the risk out of hog raising. In some ways, they help make antibiotics more effective in hog feeds.

But probably the greatest benefit of whey comes from the combined effects of lactose (which is milk sugar) and natural lactic acid. Together these materials help condition a hog's digestive system for better health and better use of feeds.

That's what makes whey-fed hogs look so slick and do so well. And it explains why hundreds of farmers go to the trouble to slop feed their hogs every day.

But with this revolutionary method of feeding whey nutrients as a block, in drylot or on pasture, hogs get the benefits of vitamin-fortified whey as they feed themselves.

Peebles' Hogblocs work especially well with automatic watering and self-feeding systems . . . because whey nutrients en-

Test alfalfa seed

A seed testing laboratory can tell the difference between seed from winter hardy and non-winter hardy varieties of alfalfa.

According to J. B. A. Rodger of Purdue University, there is a relationship between winter hardiness, drouth resistance and resistance to saline (salt) conditions.

Because of the connection between resistance to winter kill and saline conditions, testing method is based on germinating alfalfa seed in salt solutions. Of course, conditions of germination must be closely controlled.

The salt solution both slows and prevents some germination in the hardy varieties more than in non-hardy varieties. So regular check of germination percentages can give a good separation of hardy and non-hardy seed.

New coumarin test

New varieties of sweet clover with low coumarin content will soon be released for commercial use.

Coumarin is the chemical which makes the bitter taste in sweet clover.

Utah State College workers found that coumarin content of sweet clover seed is correlated with the coumarin content of the plants they produce. So seedsmen and certification agencies will be able to insure that seed of low coumarin sweet clover is as claimed.

Test is fairly simple. Seed is soaked in water and treated with sodium hydroxide. Then it is exposed to an ultraviolet light. A bright greenish yellow color indicates high coumarin. Red indicates low coumarin seed.

Sorghum breeding

Lodging resistant sorghums may be on the way. Plant breeders have found that the erect character of a new variety is inherited.

Lodging resistance can be transferred when the variety is crossed with a weak-stalked variety.

This is important since some otherwise excellent varieties have lacked ability to stand well.

Fortunately, the stalk stiffness character was inherited independently of disease resistance.

Green manure

About one-fourth of the nitrogen in alfalfa tops plowed under is recovered by the following corn crop.

That's according to H. A. Fribourg and W. V. Bartholomew of Iowa State College.

Only about seven percent of the nitrogen in red clover tops was recovered by corn the first year.

Oats following the corn got about six percent of the nitrogen in the alfalfa tops. And about three percent of that in red clover tops.

The rest of the nitrogen in the crop residues was tied up in soil organic matter. Release of this nitrogen would occur slowly over a period of years.

When you are shooting for top corn yields, nitrogen may have to be added even when corn follows a legume sod.

Dwarf plants

Excessive height of castor bean plant often makes harvesting difficult.

Plant breeders have found a dwarf internode character which shortens the plant. There's still some question on yielding ability of dwarf plants.

A similar dwarf internode character is known in corn. This may lead to harvesting corn with a combine in the future.

Phosphorus in soil

A soil can have a lot of phosphorus and still not supply enough for best plant growth.

Loss of organic matter, high amounts of clay or concentrations of iron and aluminum compounds can limit release of phosphorus for plants.

These are taken into consideration when soil tests are made.

Soil conditioners

Some types of soil conditioners increased crop yields by having an effect on available plant food. That's according to Ohio experiment station workers.

They found that less potasium was fixed into unavailable forms than on untreated soils. Nitrogen content of the plants was increased, too. Probably, more soil nitrogen was made available. And some was supplied by the conditioner compounds themselves.

However, this still doesn't make soil conditioners profitable for regular farm operations.

"Well, we got a quart of chocolate like you said."

Questions and Answers on Feeding New Hogbloc

Q: *Do I have to change my present ration?*

A: No. The whey nutrients and extra vitamins in Hogblocs act as a natural conditioner and booster. They don't replace anything you now feed.

Q: *If I add whey, will my costs be higher?*

A: No. Hogs will eat what amounts to about 3% of the total ration (on a dry material basis). The conditioning benefit and extra nourishment they get puts on gains faster, gets hogs ready for market earlier. One Hogbloc feeds 25 hogs for a week.

Q: *What about feeding Hogblocs in winter?*

A: Freezing weather does not change the consistency of Hogblocs. They can be fed the same in winter as any other time. In fact Hogblocs are "weatherproof" . . . can be fed in any kind of weather without loss.

Q: *With antibiotics in hog feeds, does whey do any good?*

A: Yes. The benefits from antibiotics and from whey are two different things. Both increase the feeding results more than the cost involved. In fact, indications are that whey nutrients actually stretch the benefits of the antibiotics in hog feeds today.

Q: *How much feed value is there in whey compared to milk?*

A: Whey is high in feed value. In fact, 100 pounds of condensed whey (50% solids) supplies as much milk albumin protein as in 900 pounds of whole milk, as much lactose as in 700 pounds of whole milk and as much milk minerals as in 600 pounds of whole milk.

This is in addition to all the valuable milk vitamins and growth factors naturally found in whey.

feeders who know of slop feeding!

courage drinking and eating for faster daily gains.

Hogblocs are economical, too. A single Hogbloc feeds 25 growing-fattening hogs for a full week.

Get Peebles' Hogblocs from your regular feed dealer. They are made by the world's largest producer of whey products, Western Condensing Company, Appleton, Wisconsin.

Write for FREE folder K-9, "New Way To Feed Whey."

Peebles' HOGBLOC

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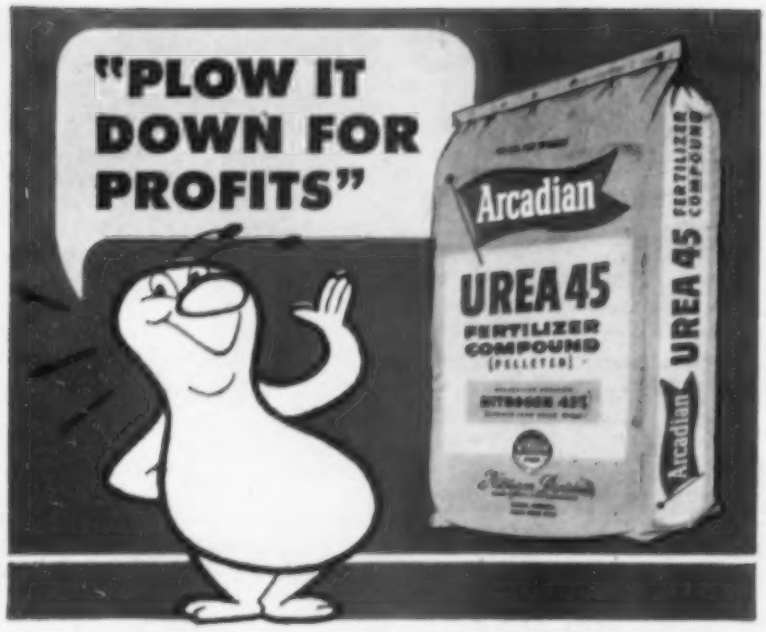

FEED "MIKE" THE SOIL MICROBE

UREA 45 Nitrogen now so your crops can feed on nitrogen-rich organic matter all next year

Fall is the time to feed ARCADIAN® UREA 45 to the billions of soil microbes in your fields of cornstalks, grain-stubble and sod that will be plowed down for 1956 crops. Plow-down UREA 45 now to provide the nitrogen these busy soil microbes need to chew up and digest fibrous crop residues into nitrogen-rich humus. Use ARCADIAN UREA 45 early to give soil microbes plenty of time to make humus available to crops next year—humus that provides organic nitrogen, phosphorus, potash and other crop nutrients to build big, profitable yields.

ARCADIAN UREA 45 dissolves readily in soil moisture and penetrates throughout the entire root zone quickly to enable soil microbes to speed their work. Any UREA 45 they don't use now stays ready to feed crops next spring.

Labor-saving ARCADIAN UREA 45 also makes quick work of top-dressing winter grains and pastures for top yields. Every 80-pound bag of free-flowing, pelleted UREA 45 provides 36 pounds of nitro-

Spread UREA 45 before you plow

Better fed youngsters and less milk surplus. Those are objects of the special school milk program which increased Iowa milk consumption in schools by about 65 percent last year. Photo was made in a Story county, Iowa, school.

More milk for school kids

Special milk program goes into second year with more schools participating

THE nation's school children last year drank 100 million more quarts of milk at school than during the previous year.

Iowa youngsters got their share. In fact, Iowa children drank almost three and one-half million more quarts of milk at school last year than during the preceding year—an increase of almost 65 percent.

All this was the result of the government's 50 million-dollar special school milk program which went into effect about a year ago. However, not all that money was spent.

ting into the special milk program, Bangs reports. School boards in some districts are providing refrigerators this year so that milk can be handled.

The special milk program makes it possible for school youngsters to get all the milk they want to drink at a cost of one or two cents per half pint, Bangs points out.

Under this year's program, the government pays three cents of the cost of all milk used in schools which do not have hot lunch programs. In hot lunch

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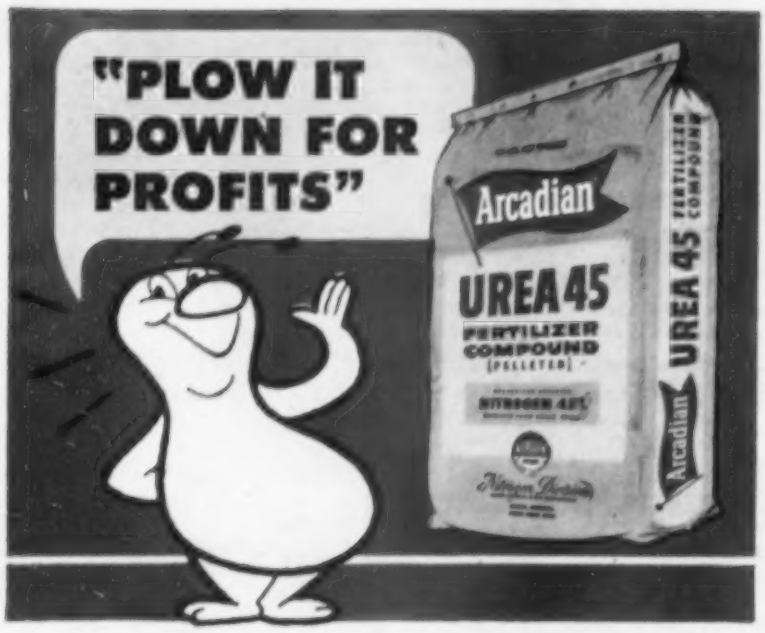
IT HAPPENED *On the Farm*

"In 32 years — no shutdowns, no breakdowns!"

"We've used Standard Oil Company products for the past 32 years," says George Zeamer of Brown County, Wisconsin, "and we're more than satisfied. Standard Oil Agent Chris Baeten calls regularly—we've never had to shut down for lack of fuel. We've never had a breakdown during busy seasons, either. Standard Oil products and service have kept our operating costs to a minimum."

"We've used Standard Motor Oils in this tractor since 1939," says Mr. Zeamer, "and it has had a lot of hard use.

George Zeamer and sons operate two farms totaling 320 acres on a partnership basis. Here George and Vernon watch



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Spread UREA 45 before you plow down cornstalks, to get more valuable humus out of the 4 to 8 tons of roots and stalks on each acre.

Plowed down sod feeds crops better when you add UREA 45 to build nitrogen-rich organic matter.

Spread UREA 45 on grain stubble and straw to speed the job of soil-building for the next crop.

Arcadian® UREA 45

SEE YOUR ARCADIAN UREA 45 SUPPLIER TODAY

Ask for prompt delivery of UREA 45. Ask also for free literature, or write to the nearest address below.

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All this was the result of the government's 50 million-dollar special school milk program which went into effect about a year ago. However, not all that money was spent.

Iowa, for example, was allotted $733,000 for the special milk program. But only $634,000 was used, according to C. W. Bangs, state school lunch supervisor. The remaining $99,000 is being returned to the federal government.

A total of 1,025 Iowa schools participated in the special milk program last year. However some of those schools did not get into the program until late in the year, Bangs explains. That's one reason why all of the funds weren't used.

So you can expect another big increase in school milk consumption again this year, Bangs believes. More schools will be set up to take advantage of the program for the entire year. Milk consumption was almost doubled last year in some of the schools which took advantage of the special program from the beginning, Bangs points out.

Added to that is the fact that more schools are asking to get into this year's program. Most of the 909 Iowa schools serving hot lunches were in the program last year.

Lots of rural schools are getting into the special milk program, Bangs reports. School boards in some districts are providing refrigerators this year so that milk can be handled.

The special milk program makes it possible for school youngsters to get all the milk they want to drink at a cost of one or two cents per half pint, Bangs points out.

Under this year's program, the government pays three cents of the cost of all milk used in schools which do not have hot lunch programs. In hot lunch schools, the government pays four cents of the cost of each half pint of milk used in excess of the one serving that goes with each hot lunch.

Average cost of milk served in Iowa schools last year was 4.6 cents per half pint. So some schools managed to serve the extra milk without charging youngsters directly.

What about special school milk funds for this year? Indications are that there'll be enough money to pay all the extra milk Iowa school children will drink, Bangs says. Iowa's allotment is about the same as last year. And Bangs says that a reserve fund can be drawn upon if the milk drinking increase is big enough to make such action necessary.

So there's room in the special milk program for your school—if it isn't already in.

AVERAGE WEIGHT per fleece from sheep shorn this year is up more than a third of a pound over the 10-year average. Total production of wool in this country is about 10 percent below the 10-year average. And two percent below last year.

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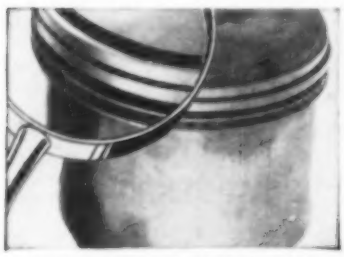
"We've used Standard Motor Oils in this tractor since 1939," says Mr. Zeamer, "and it has had a lot of hard use. We recently had it overhauled, for the first time, and it had only 4/1000 of an inch wear on the cylinder walls. Even the implement dealer was amazed at such performance!" Standard Oil Agent Chris Baeten, shown here with Mr. Zeamer, has served the Zeamers for 32 years.

George Zeamer and sons operate two farms totaling 320 acres on a partnership basis. Here George and Vernon watch as Helmer gives Agent Baeten a hand with a barrel of PERMALUBE which the Zeamers use in their 3 tractors. The Zeamers are thoroughly convinced that Standard Oil products are *tops*. As George says, "After all, they *must* be good to keep me using them for 32 years!"



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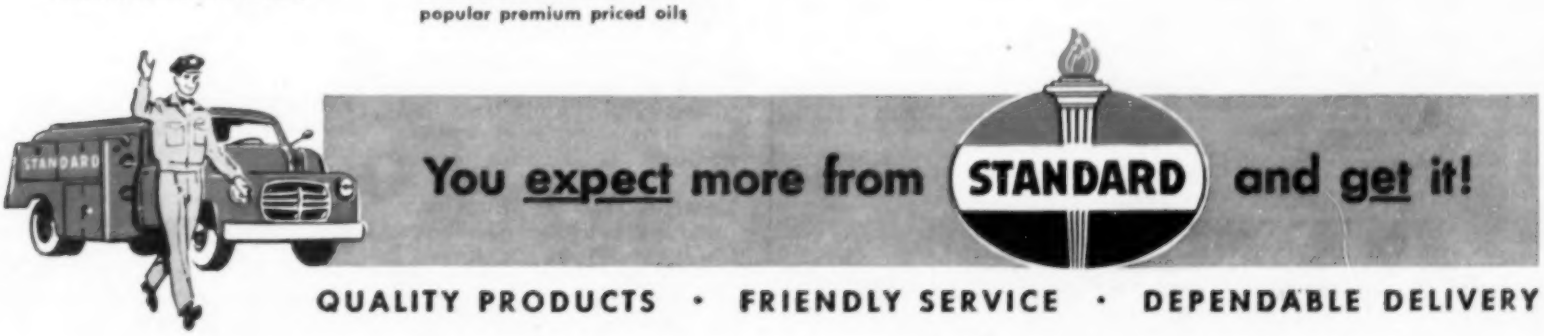
Lubricated with one of the popular premium priced oils

Here is visual proof of the effectiveness of PERMALUBE Motor Oil. See how clean it leaves pistons and rings. Besides giving the best possible lubricating protection, PERMALUBE contains additives which fight acid and sludge—reduce valve and combustion chamber deposits and wear—protect valve rotators, too. PERMALUBE is a truly great motor oil. You'll find it "tops" for *your* power equipment. Your nearby Standard Oil Agent suggests that you try it.



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More and Better Eggs

CASH IN on the fast-growing demand for quality eggs . . . for top prices. Your Wayne Feed Dealer can help you . . . with high-efficiency Wayne Egg Feeds . . . valuable Aids to Higher Egg Quality . . . and this —

FREE

EGG QUALITY HANDBOOK

Explains methods of handling eggs for best prices . . . as well as 4 ways to boost egg production.

SEE YOUR WAYNE DEALER NOW FOR VALUABLE

"Aids to Higher Egg Quality"*

*AT SPECIAL LOW PRICES WITH PURCHASE OF ANY WAYNE EGG FEED

Plastic Coated Wire Basket

$3.00 Value! Heavy wire, with thick, tough plastic coating. Won't mark eggs. Helps you gather and cool eggs quickly, correctly to protect quality. Holds 15 dozen.

Hanging Flock Feeder

$3.95 Value! Newest idea in feeders! Rugged galvanized steel construction. 24" high. Holds 50 lbs. Saves floor space. Simple, easy to move, adjust and clean.

Accurate Egg Scale-Grader

$2.60 Value! Easy-to-read colored dial shows accurate weight of individual eggs as well as weight per dozen. Also a handy grader. Used by thousands of producers.

Egg Room Thermometer

Designed specifically for egg storage rooms by Inst. of Amer. Pltry. Industries. Egg handling directions printed on face. Signals correct temperature limits.

Attractive Egg Cartons

Specially designed by leading U.S. carton mfr. Strong, sturdy, protects against egg breakage. Easy to set-up and close. Positive locking. Packs 30 dozen to standard egg case.

Handy Egg Cleaning Brush

60¢ Value! New plastic design with sponge rubber cushion for less egg breakage and faster cleaning. Whisks dirt from eggs to avoid price discounts.

YOUR CHOICE OF

7 High Efficiency Egg Feeds

Tested and Proved by Wayne Research Farm Division and Thousands of Users

MASH-SCRATCH . . .
feed Wayne Egg Mash

ALL-MASH . . .
feed Wayne Universal Egg

NOON FEED . . .
feed Wayne 26% Egg & Breeder

CAGED LAYERS . . .
feed Wayne Cage Layer

BREEDERS . . .
feed Wayne Breeder Mash

TROUBLE SHOOTER . . .
feed Wayne H-A-D Kruma

CONCENTRATES . . .
use Wayne Poultry Mixer

WAYNE FEEDS

ALLIED MILLS, INC., Executive Offices: Chicago 4, Ill.—Service Offices: Fort Wayne 1, Ind.

Workday pointers

PINKEYE in cattle is spread by contact and by insects. Keep infected animals away from your other cattle. Best place for them is in a dark shed.

▼ ▼ ▼

POORLY CLEANED grain or moist grain attracts grain bin insects.

▼ ▼ ▼

MORE dairy cows than feed? Cull 10 to 20 percent of the lowest producers.

▼ ▼ ▼

GRAIN IN BINS should be inspected at least every two weeks. Look for leaks on the outside. Also test to see that grain

isn't heating or infested with insects. Then look for roof leaks. And any unscreened windows or doors where rats or birds can enter.

▼ ▼ ▼

COMBINE ENGINES will start easier if dust is wiped from distributor parts and spark plug wires after each day's work. A layer of dust can take on moisture and short the ignition system.

▼ ▼ ▼

WEEDS AND TRASH around cribs or bins invite rats and mice to take up quarters there.

▼ ▼ ▼

BALBO RYE is said to taint milk less than common rye when used for cow pasture. One acre per cow is suggest by Indiana experiment station.

▼ ▼ ▼

OVERLY FAT HEIFERS produced less milk in their first lactation than did identical twins that were not overly fat in Tennessee tests. Heifers need growthy rations, whether of dairy or beef herds.

▼ ▼ ▼

RYE for pasture can be seeded in the next week. Six pecks per acre is the rate used by many farmers.

▼ ▼ ▼

SOME CATTLEMEN keep both loose salt and mineral blocks before cattle at all times.

▼ ▼ ▼

FAST MOLTING HENS are the ones to keep in the flock for the winter. Cull the old hens that quit laying and start molting early.

▼ ▼ ▼

LISTING produced better corn yields than surface planting on the western Iowa experimental farm in Monona county. Loose ground listing beat surface planting on first-year corn. Hard ground listing was better than surface planting on second-year corn.

BUILDING PAPER is recommended for insulation of outer walls of farm buildings under shingles or siding. It lets moisture pass thru.

▼ ▼ ▼

SOYBEAN grade requirements have been changed. Better cleaning job will be necessary on your 1955 crop to avoid discounts.

▼ ▼ ▼

CRICKETS are attracted by lights, says Earle Raun, entomologist at Iowa State College. So basements will have fewer crickets if kept dark. Recommended spray for crickets is five percent DDT or two to five percent chlordane.

▼ ▼ ▼

AIR PRESSURE should be kept up in tires not in use. And it's better if machines are jacked up so tires do not support weight of machine.

▼ ▼ ▼

METAL SHEETS for roofing or siding should be held together with bolts or clamps of the same kind of material. Use aluminum with aluminum. Galvanized bolts with galvanized material. Corrosion results where dissimilar materials are together and moisture is present.

▼ ▼ ▼

SHELLED CORN will pick up a lot of moisture if moved during a drizzle or foggy weather. Result may be to lower the grade and price.

▼ ▼ ▼

RODENTS AND BIRDS do 75 percent of the damage to grain in cribs and bins, says Earle S. Raun, Iowa State College entomologist. Insects are responsible for 25 percent of the damage.

▼ ▼ ▼

RUGS can be made slip-proof by the use of rubber mats under them. Or by the use of powders made for the purpose. Some sew

jar lid rubbers to the bottom of rugs. This will make rugs stick if the rubbers are close enough together so your weight is sure to fall on one of them.

▼ ▼ ▼

INEXPERIENCED cattle feeders who go to stockyards to buy cattle without help are playing the other man's game. Commission paid to a buyer working for you will likely be money well spent.

▼ ▼ ▼

USERS OF CREDIT usually get along best when their borrowing is kept in one place. Money lenders get scared of men with scattered debts.

QUIPS AND QUOTES

NOTHING WILL EVER be attempted if all possible objections must first be overcome.—Walnut Bureau.

A WOMAN'S INTUITION, we surmise, is what enables her to put two and two together and get a man's number.—Gowrie News.

A LOT OF TROUBLE in this world is caused by combining a narrow mind with a wide mouth.—Ogden Reporter.

ONE CAN BE a big shot without being a big noise.—Lake View Resort.

BEST RECIPE FOR getting rich is to work hard day and night and have a rich relative die and leave it to you.—Kossuth County Advance.

AS I GLANCE around among the men and women in our crowd, I can't decide whether we're graying prematurely or are older than we think.—Decorah Journal.

WHOEVER LETS GO the smallest part of a secret has lost the power to keep the rest.—Cherokee Courier.

IT'S THE FRESH egg that gets slapped in the pan.—Van Buren County Register.

IT'S FINE to talk straight from the shoulder—better to talk from higher up.—Titonka Topic.

HE WHO SHOWS off least shows up best.—Lake City Graphic.

A GIRL'S A MINOR until she's eighteen. Then she's a gold digger.—Danbury Review.

ABOUT the only thing a man has to show in proof of not saying anything hasty which calls for regrets is his bachelorhood.—Manning Monitor.

THE BEST WAY to accumulate money is not to spend all you have.—Neola Gazette-Reporter.

SOME PEOPLE are in the dark without turning out the light.—Adair News.

Play It Safe!

He was painting happily
Till he took a spill
'Cause his flimsy scaffolding
Didn't fill the bill.
—Beth Wilcoxson

Leads the Field in yield

GENUINE PFISTER HYBRID — OTHER HYBRID

Standability

Excellent standability means higher yield . . . greater profit per acre to you. In 1954, lodging counts taken in the 1,012 competitive yield checks made right in the farmers' own field, showed that Genuine Pfister Hybrids had an average of 3.3% more erect stalks in the field than the competitive hybrids. In an average stand of 12,000 to 14,000 plants per acre, this means an increase of 3 to 4 more bushels per acre gained from the superior standability of Genuine Pfister Hybrids.

MOISTURE

Low moisture content at picking and cribbing time means more money to you. Records of the competitive yield checks made in 1954, show that in better than 61% of the checks Genuine Pfister Hybrids averaged 2.3% less moisture than the competitive hybrids.

SHELLING %

High shelling percentage indicates high quality grain. In 1954, shelling percentage was recorded in each of 1,012 competitive yield checks. Genuine Pfister Hybrids won 66.2% of these checks averaging 2.4% additional shell-out.

YIELD

In 8,324 yield checks, made by farmers right in their own fields, Genuine Pfister Hybrids out-yielded other competitive hybrids 8 out of 10 times, averaging over 9.6 more bushels of #2 shelled corn per acre.

Genuine PFISTER HYBRIDS

BEN COURTWRIGHT
Lincoln, Illinois
One Acre (alternate planting), 256.9 bushels of #2 shelled corn per acre.

Quality

At the 1954 International Hay & Grain Show, Chicago, Illinois, Genuine Pfister Hybrids won more top honors than all hybrids combined plus 11 out of 15 Regional Grand Champions.

CARROLL BROWN
Rose Hill, Iowa
Ten Acres, 224.2 bushels of #2 Shelled corn per acre.

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PFISTER ASSOCIATED GROWERS, INC.

AURORA, ILLINOIS

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THAT'S WHY YOU SHOULD FEED

VICTOR PIG PRE-STARTER and STARTER

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Many hog raisers put their pigs on VICTOR PIG PRE-STARTER as early as 5 to 7 days after birth. Your pigs will be eating well by the time the sows' milk flow drops off. And you are protected against expensive setbacks. It means earlier weaning, too — which is important.

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VICTOR PIG PRE-STARTER AND VICTOR PIG STARTER contain essential nutrients in scientifically balanced amounts to put fast, quality, low-cost gains on your pigs. And, because VICTOR PIG PRE-STARTER and VICTOR PIG STARTER are so appetizing—your pigs will love them.

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VICTOR FEEDS

THE CRETE MILLS CRETE, NEBRASKA

Division of the Lauhoff Grain Co.

What farmers say about labor unions

1. Labor unions in this country are doing a fine job 5%
2. While they do make some mistakes, on the whole labor unions are doing more good than harm 51
3. Altho we need labor unions in this country, they do more harm than good the way they are run now 19
4. This country would be better off without any labor unions at all 11
5. Undecided 14

IS THIS the way farm people in your neighborhood feel about labor unions? The Wallace-Homestead Poll interviewed a representative cross-section of Iowa farm folks.

The table above gives the results. Farm people were asked to look at the four statements and then check the one with which they came closest to agreeing.

The approving vote for labor unions got its biggest support from young people. Many of them have held town jobs.

For Iowa farm people as a whole, the Poll found that 36 percent of the men had, at one time or another, held a town job. And 40 percent of the families had relatives now in town jobs.

There was a big difference between farm people of 20-34 years and those 50 and over. Here is the comparison:

	20-34	50 up
1. Labor unions —fine job	3%	8%
2. More good than harm	66	40
3. More harm than good	19	19
4. Against unions	4	15
5. Undecided	7	21

One elderly farmer in Muscatine county declared: "Those people who belong to unions keep asking for higher wages, and they win out. That makes us pay more for what we buy."

But another man of about the same age in Iowa county insisted: "The union is as necessary to town workers as the Farm Bureau is to the farmer."

Another farmer in Winneshiek county said: "The country would be in a heck of a shape without any unions."

A Floyd county man commented: "That's a hard question to answer. I worked in a factory before they had unions and they needed one. But these unions certainly have their faults."

Democrats and Republicans voted much the same on this question. And there wasn't much difference between those who voted for Martin or Gillette in the 1954 senatorial election. Women looked at the question about the same way men did.

The real differences showed up in age and town work experience. But at that, farm people 50 and over still gave 45 percent approval (statements 1 and 2) to unions and only 34 percent against them.

Young people had a favorable total of 69 percent against an unfavorable total of 23 percent.

But even the farm people favorable to labor unions thought there was room for improvement.

A farmer in Harrison county remarked: "I wish the unions would have a housecleaning. They upset some things that would really do them good."

And a woman in Benton county declared: "My blood boils when I think of unions and their bosses."

Another woman, on a rented farm in Lucas county, had this to say: "I suppose we need unions, but sometimes they aren't fair to their own members."

Mud-Road Mac

"Say, have you missed a calf just lately?"

Like to know how heifer calves will produce before selecting replacements? Size and development of mammary glands according to age of calf can help you find out.

How to pick good dairy calves

Here's information on method developed to predict milking ability of heifer calves

NOW there's an answer to the age-old problem of how to choose a heifer calf that will become a good dairy cow. United States Department of Agriculture workers have found a method that seems to work.

Size and development of mammary glands are checked when heifer calves are four to five months old. Scores from one thru nine are assigned on this basis, including age of calf. The higher the score, the more milk and butterfat when the calf gets into production.

Here's how the method has checked out at the Department of Agriculture research station.

Jersey cows that scored seven, eight and nine at four months of age were compared with cows scoring one, two and three.

High scoring Jerseys produced 2,460 pounds more milk than low scoring animals. Butterfat average was 143 pounds higher, too.

For Holsteins, the difference was even greater. High scoring cows produced 4,358 pounds more milk. And 164 pounds more butterfat.

The method is under further test in 40 herds in 15 states.

To date, it shows real promise. So how complicated is the technique? Can any farmer use it?

It would be too much to expect a simple method of determining a complicated factor like milking ability. But use of the method should prove easy enough for any serious dairyman.

Cost will be small. Only equipment needed is a ruler and a special chart called a nomogram. Probably, the charts will be available from the Department of Agriculture if the method proves itself in the field.

Here's a little on how the job is done:

First, you need to know that mammary glands start as a slender tube running straight from teat to body wall. Within 30 days after birth, they start to thicken. Then they change in both size and shape as they pass thru different stages.

Determining stage of development can be done with little experience. Glands can be felt easily thru thin walls of udder. But during some stages, there are fat deposits that must not be mistaken for glands.

Then comes measuring size of the glands. This is done by finding the widest part with thumb and finger. Then thumb and finger are held at this constant width while hand is moved to place where distance can be measured with ruler.

With a little practice, most folks can keep the space between thumb and finger quite constant, Department of Agriculture workers found.

Most skill comes in finding widest part of gland to measure, workers think.

Average width of glands determines one point on the chart. Age of calf and stage of gland development locate another. A ruler held along the two points crosses a scale of numbers which score the calf.

The method isn't exactly simple. But with detailed instructions and the chart, a serious dairyman can get an advance guess on performance of calves.

Of course, poor nutrition or sickness can slow development of glands just as it does body growth.

This advance measure of milking ability can be a big help to farmers. They have to select about six million replacement cows each year. So far, about a third of those have failed to make profitable producers.

WHEN SUCCESS TURNS a man's head, everyone gets a pain in the neck.—Kossuth County Advance.

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TO BE FED WITH CORN OR GRAINS IN DRY LOT

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"Well, what I really had in mind was something a little more of the Clark Gable type."

Nitrogen Helps Plants Use Phosphorus

Nitrogen promotes use of fertilizer phosphorus by small grains.

A small amourft of ammonium nitrogen applied with phosphate gives chance for top efficiency, according to R. A. Olson and A. F. Dreier, University of Nebraska scientists.

Efficiency seems to come from extra root growth encouraged by the nitrogen. And from a concentration of roots in the area where the fertilizer mixture was applied.

For maximum efficiency on small grains, apply all of the nitrogen and phosphate in a band beside the drill rows of grain.

Of course, this doesn't fit into system where phosphate for entire rotation is applied in one application.

Added efficiency applies only to the next crop following addition of the fertilizer, say the scientists.

Similar results were noted in North Dakota experiments.

Release New Hog Wormer

A new hog-worming compound containing piperazine has given excellent results in tests at the University of Wisconsin. It'll be on the market this month under the trade name, "Parvex."

Dr. A. C. Todd, Wisconsin parasitologist, says the new compound appears to combine the efficiency of sodium floride and phenothiazine with the safety of cadmium compounds.

Parvex can be mixed with feed and used on pigs of all ages—including bred sows close to farrowing. One day's treatment will do the job. And there's no growth setback, Dr. Todd says.

The drug is non-toxic to hogs. Ten times the recommended dose has been given for three days without harming hogs.

Organic Matter Helps Soil Structure

Good structure can be built back into compacted and eroded soils, say Indiana scientists.

Adding fresh organic matter gave a big boost. And it encouraged return of earthworms, ants and soil insects.

Wetting and drying caused cracks which helped plant roots enter the compact soil. Commercial fertilizer stimulated root growth and appeared to help tilth, too.

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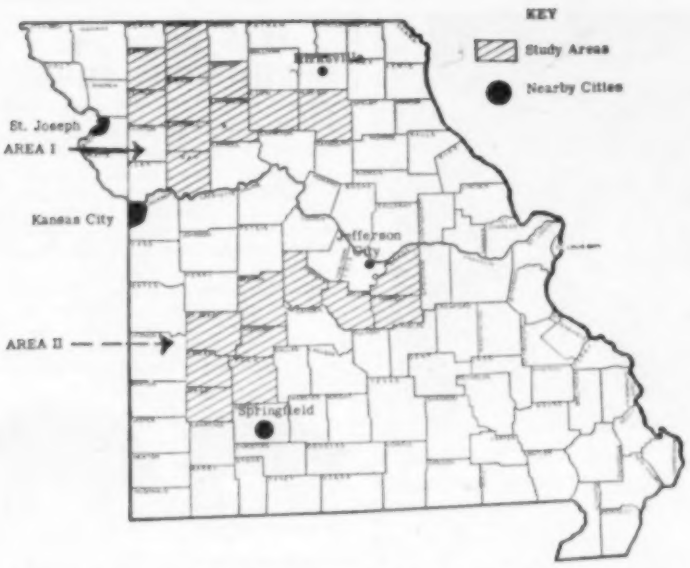

Map shows the 20 rural Missouri counties in which the supply of medical doctors was studied by workers at the Missouri agricultural experiment station. Largest town in the study area is under 10,000 population. Ten of the counties are within 50 miles of Kansas City, St. Joseph, Springfield or Jefferson City.

How old is your family doctor?

Rural Missouri medical doctors are becoming fewer—and older

HOW old is your family doctor? When he retires—or wears out—will you be able to get another doctor in your community?

Lots of farm communities are bumping into that question. Take, for example, the 20 rural counties on the Missouri map above. There are no big cities in those counties. And the agricultural experiment station at the University of Missouri has made a study of the doctor supply in the area.

A little more than one-third of the practicing doctors in those counties are past 65 years of age.

And those doctors—despite their age—have a big load to carry. In fact, the population per doctor is more than double what it was 30 to 35 years ago.

Not enough young doctors are going into those rural counties to replace the old doctors, the Missouri study shows.

It's hard to get young doctors interested in serving rural areas. Most of them prefer city practice with better facilities and opportunities for specialization and professional recognition.

With about half of Missouri's population, the counties (outside the study area) in which Missouri's four biggest cities are located have almost three-fourths of the state's medical doctors. Back in 1912, those four counties had 40 percent of the population and less than half of the state's doctors.

Actually, the total number of medical doctors in Missouri is about 1,000 less than it was in 1912. Even in the larger cities, the number of doctors has hardly kept pace with population growth. And in rural areas, the supply of doctors has lagged far behind the population growth.

In 1950, the 20 rural counties in the study area had a total of 133 practicing medical doctors. It has been assumed civilian health is endangered if the ratio is greater than 1,500 persons per doctor. So at that time, the area actually needed 160 doctors.

By late 1954, however, the number of doctors in the 20-county area had dropped to an even 100—a loss of 25 percent. Fifty-six of the doctors who were practicing in 1950 had died, retired or moved away. And only 23 new medical doctors had established practices. Still, however, about one-third of the total doctor supply was past 65. Nearly one-fifth of all the doctors were limiting their practice to less than full time.

In addition to medical doctors, there were 90 doctors of osteopathy in the 20 rural counties in late 1954. This is about the same number of osteopaths as were in the area five years earlier. And only five percent of the osteopaths were past 65 years of age.

"If the total number of medical doctors in practice continues to decline while the total number of osteopaths remains relatively stable, osteopathic physicans will soon outnumber medical physicians in the study area," the Missouri workers suggest.

The study concluded: "There are now fewer MD's in practice in these rural counties than at any time during the past 40 years. The prospect . . . is for continued decline . . ."

So farmers in these Missouri counties must rely on fewer and older medical doctors. An Oklahoma study shows that similar conditions exist in rural counties of that state. How's the situation in your area?

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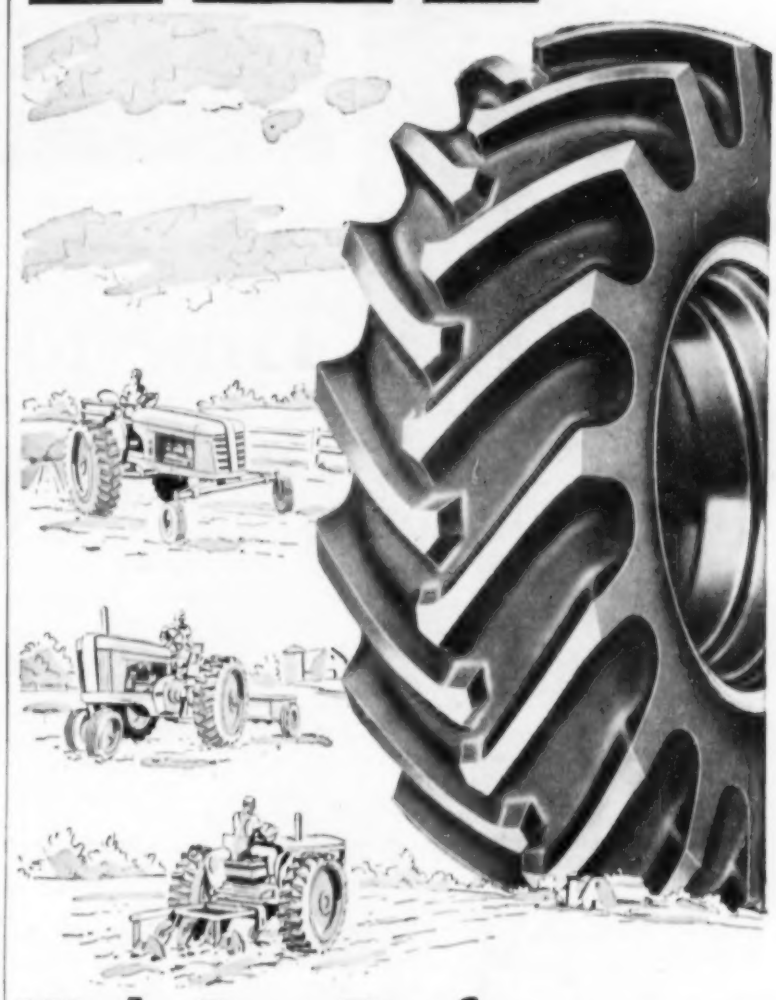

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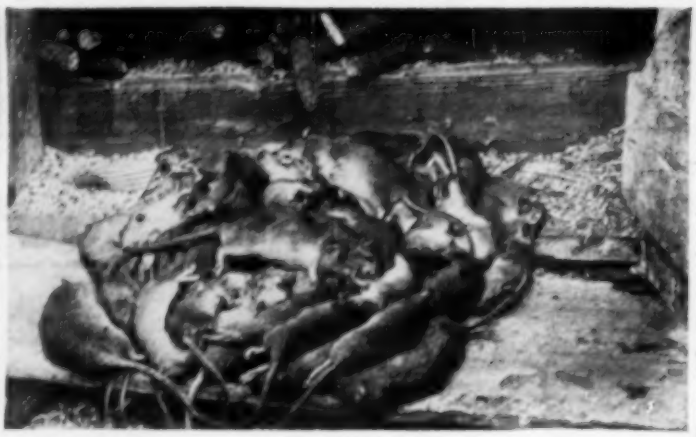


Two dollars saved for every rat killed. That makes rat control a mighty profitable way for most farmers to spend a little of their time.

Time to kill those rats!

EACH rat on your farm runs up a board bill of two to three dollars a year in wasted feed and damaged buildings. You can save most of that with a three-point control program.

First, is a general cleanup. Rats won't live where there's no place to hide.

Lumber, old machinery, junk, fencing materials—anything left lying on the ground can make a hiding place. Anything worth keeping is worth giving good storage. So store such things on platforms above the ground.

Second step is rat proofing. This is particularly important for cribs and bins where feed is kept.

Concrete or metal floors are ideal. Wooden floors can be covered with hardware cloth.

Smooth walls rising at least two feet above level of ground keep rats from climbing up side of buildings. A two-foot wide strip of hardware cloth can do the same if it is topped with an eight-inch strip of smooth metal.

Doors and door frames may need metal flashing, too. Self-closing device for doors is a good idea. An open door can cancel a lot of rat proofing work.

Third point is a rat killing campaign. For that, warfarin or a similar compound will work well.

Best bet is to keep warfarin in water-tight bait stations. That keeps it ready for rats, but away from pets and children.

For best results, follow the instructions on warfarin container when preparing baits.

Pays to protect feed. A rat eats about 25 pounds of feed and spoils 75 more each year.

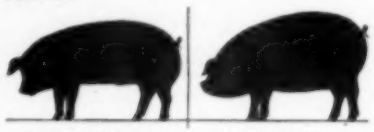
Cleanup is first step in rat control. That includes picking up lumber, posts and rubbish. Also mowing weeds near buildings.

LEAN HOGS and HIGHER PORK PRICES
by Henry Arthur

LAST YEAR we produced a billion pounds more soybean oil than we did lard.

About 80% of the soybean oil produced each year is used in food products—much of it in direct competition with animal fat! Due to this competition, lard surpluses have lowered the price of hogs for the past 10 years.

Who raises the soybeans? The largest tonnage is raised right in the heart of the corn belt. Thus, the same areas, and in many cases the same farmers, are producing two competing products—lard and soybean oil.



GOOD LEAN TYPE POOR FAT TYPE

The average hog produces enough pork for two people and enough lard for three. A lean, meat-type hog produces enough lard for two persons—that's why we are so interested in promoting lean hogs. They are the only type of hog that will provide customers with the kind of pork they want without creating more surplus fat.

It's much less expensive to produce soybean oil than it is to produce lard, therefore, soybeans will continue to be an important crop in this country.

It seems logical that we recognize this situation and earnestly go about the business of raising *leaner meat type pigs rather than fat pigs.*

You'll find Minnesota 36% Linseed Oil Meal a big help in bringing your meat type hogs to market in top price condition—it's an important feed supplement high in proteins and mildly laxative. Send for my free booklet, "*Home Mixed Rations*" and ask your feed dealer to get you Minnesota 36%—in meal, pellet or grits form.

Minnesota Linseed Oil Co.
Minneapolis 21, Minnesota

NOW! Smalley Mills Mix Feed as they Grind!

Mix your own feed rations — at home. Illustration shows the Hatchet Mill with MIX-ALL attachment, grinding cob corn and mixing concentrates into the ground feed — all in one operation. A sure saver of time, labor and feed costs. Available for belt drive, P.T.O. drive and standard 3-point mounting. WRITE FOR DETAILS.

SMALLEY Mfg. Co., 557 York St., Manitowoc, Wis.

TV ANTENNAS
ZEE-BEAM
by WELCO
FOR A NEW THRILL IN TV VIEWING ENJOYMENT SEE YOUR SERVICE DEALER

"Try to collect an installment on farm machinery and that boy disappears every time."

Winning bulls still active

Nineteen former winners of the Iowa Meritorious Sire Contest were still living in Iowa and in service on July 1, 1955. Of these, 10 are owned by artificial breeding associations in Iowa.

Eastern Iowa Artificial Breeding Association, Cedar Rapids owns:

1. Judd's Bridge Don, a Brown Swiss that was a 1950 winner. 2. McDonald Farms King Marvin, a Guernsey and 1953 winner. 3. Skyline Challenger's Liberator, a Guernsey, 1951. 4. Gerart Bess Lochinvar Prince, Holstein, 1953. Hillman Star Felecia, Holstein, 1953.

Iowa Breeders Co-op, Des Moines, owns: 1. Welcome Siegfried Orion, a Jersey and a 1954 winner. 2. Springbank Sovereign Captivator, a Holstein that won in 1952. 3. Sir Bess Pride Ormsby Fobes, Holstein, 1953. 4. Janet's Duke of Cedar Valley, a Brown Swiss and 1951 winner is jointly owned by Iowa Breeders Co-op, Peter Huendling, Breda, and Clyde Monson, Gowrie.

Mercedes Veeman Beets, a Holstein, and a 1952 winner, is owned by Northwest Iowa Breeders Co-op, Sheldon, Iowa.

A. J. Johnson, Elkader, owns two former winners, Pabst Burke Piebe Tritomia, a Holstein, 1952; and Tritomia Alcartra Burke Piebe, Holstein, 1954.

Sir Homestead Transmitter, a Holstein, 1953, is owned by Harold Becker, Watkins.

A 1954 winner, Skokie Prince Pathfinder, Holstein, is owned by Vincent Caslauka, Clutier.

Skokie Prince Lavar, a Holstein winner in 1954, is owned by Mrs. Clara Johnsen, Mason City.

Homer S. Fike, Waterloo, owns McDonald Farms High Lad, a Guernsey, another 1954 winner.

Manning Creamery Company, Manning, owns Carnation Governor Homestead Inka, Holstein, 1952.

Oakdale Dictator Tritomia Fobes, Holstein, 1950, is owned by Glenwood State School, Glenwood.

F. A. Chester, Plainfield, owns the Holstein, Osborndale Thunderbolt, a 1951 winner.

HABITS ARE LIKE soft warm beds—They're so easy to get into . . . but so hard to get out!—Walnut Bureau.

STEP UP TO FOUR-PLOW POWER

with the economy champion Super 88

Think of the times you've wished you had more power—real, four-plow power to knock the job off in a hurry.

Now is the perfect time to get it.

Why now? Because now, with a Super 88, you can have your power and economy both. You can have a *four-plow* tractor that costs little more than the ones below it—and, on a cost-per-job basis, will run the best of them into the ground!

First, let's take the power. The Super 88 develops fifty horsepower at the drawbar—the most powerful row crop tractor made. It will roll right along with four bottoms: in third where the going is heavy, in fourth where the going's good.

Now for economy. On gasoline, this tractor broke all records in nationally recognized tests. On diesel, of course, it will do still better. With Oliver, you have your choice of engines.

Two other points you'll want to consider: *comfort* and *upkeep*. The smooth, six-cylinder power of the Super 88 scores on both points—it's easier on the tractor, easier on you. Or take Oliver's double-disc brakes. They'll outwear other kinds six to eight times over (yet they require only half the foot pressure—*you'll* wear better, too!).

And for the best in conveniences . . . for time-saving efficiency . . . ask your Oliver Dealer about Oliver's new "Hydra-lectric" control system and Oliver's famed Independently Controlled PTO.

But first, see how little it costs to step up to a Super 88. See how this tractor pays off in work performed . . . upkeep saved . . . higher trade-in value. See your Oliver Dealer for all the facts and figures! The Oliver Corporation, 400 West Madison Street, Chicago 6, Illinois.

OLIVER

"FINEST IN FARM MACHINERY"

For only 1/4¢ per week per sheep you can insure a healthier flock and healthier profits!

(Based on the national average salt requirement per sheep)

Just that much more is all it costs to feed a sheep Morton Trace Mineralized Salt instead of ordinary salt

A healthy sheep produces healthy lambs . . . heavier fleece . . . bigger profits for you.

To *insure* good health, you should feed all your sheep Morton Trace Mineralized Salt.

Morton T-M Salt provides the sodium and chlorine your livestock must have, plus adequate amounts of vital trace minerals: iodine, cobalt, copper, iron, zinc, and manganese.

Most farm land lacks one or more of these essential trace minerals. Lack of any one can cause poor health . . . poor reproduction . . . lighter fleeces.

Feeding trace minerals with salt is the surest, most economical way to guarantee an adequate supply. Morton Trace Mineralized Salt is inexpensive. All animals like it, will eat it readily every day. When they do, they get the salt they crave, plus the trace minerals they need.

To assure proper mineral balance, build your mineral feeding program around Morton T-M Salt. It's essential to a sound, economical mineral program—whether or not you feed a major mineral supplement. Its cost is so slight—the protection it offers so valuable—it is the only kind you should use.

Just be sure to feed it to your animals free choice. You know they need it. They know how much.

MORTON T-M SALT
Trace Mineralized Salt

AT YOUR FEED DEALER'S IN BAGS AND BLOCKS

New furnace was installed three years ago in this farm home. It will probably be several years before repairs will be needed. But if you have an older furnace, have it checked and repaired by a reliable furnace company.

Tricks in furnace repairing

Choose your furnace repairman with the same care used in selecting the furnace

SOME furnace repairmen are playing "tricks and treat" with Corn Belt farmers. They try to "trick" you into buying a new furnace. And they "treat" you in any way necessary to get you to fall for their "line."

If one of these "furnace experts" hasn't called on you yet, don't think they've missed you. One will probably "just drop by" soon.

One of the unfair practices used by these salesmen is the "old furnace inspection" approach.

In this scheme, a high pressure salesman will call on you. And by some means or other he gets permission to "inspect" your furnace. This means that you are "nibbling" at his "bait."

His inspection reveals (always) that the furnace needs certain repairs. The salesman will then try to sell you on the idea of cleaning and recementing your heating plant. He will name a nominal fee. And, of course, he always recommends that his company, or one with whom he "just happens" to have a good contact, do the work.

Representatives of the company then arrive and at once completely dismantle the furnace.

With your furnace scattered all over the basement floor, another salesman or "heating engineer" calls. He, naturally, says that your furnace is in such poor condition that it constitutes a fire hazard.

He then gives you his "expert" opinion. In his opinion the replacement of worn out parts would be "so costly that the purchase of a new furnace is far more advisable."

In some instances these experts have falsely claimed furnaces are beyond repair. And warned that they cannot be responsible for fire or health hazards if the old furnace is put back into use.

If you still refuse to buy a new furnace the "expert" really turns on the heat. He may tell you that your old furnace won't be reassembled until you sign a paper releasing the company of responsibility in the event of loss of life or property thru fire or carbon monoxide poisoning.

In certain instances on record with the Des Moines Better Business Bureau where the home owner refused to be "taken in," the furnace was reassembled after a long delay. Then it was put back in operation only after payment for cleaning. And in some cases no cleaning was done.

In some cases "condemned" furnaces have been found to actually require only modest repairs costing $20 to $25.

Some such condemned furnaces turned out to be, in spite of the "expert's" opinion that they were old and faulty, only three to five years old.

Most furnace companies are reputable firms. And will do a good honest job of repairing your furnace. Such companies will do the work for a reasonable price.

If you are in doubt about a furnace company, take time to investigate. Ask the salesman for names of satisfied customers of the company. Then check with them to see if they're satisfied with the company's work.

Don't let a salesman rush you into letting him do the job. If he is honest and represents a reputable company, he will let you make the investigation, and come back later to see if he can do the work for you.

"You know that stretch of bottomland we put in corn?"

Get More Profit From Hogs

Efficient production is the key to profits from hogs, says Paul Guyer, University of Nebraska swine specialist. Here are seven points of good management he recommends:

1. Sell meat type hogs at 200 to 210 pounds. Gains above these weights seldom pay for themselves.
2. Use cheapest feeds available. Ground oats can replace a fifth to a fourth of the corn in a ration. Sorghum grain has about 90 percent as much feed value as corn. Works as well if you feed enough of it.
3. Feed plenty of protein.
4. Supply lots of clean, fresh water. It's the cheapest feed you have.
5. Select breeding stock carefully. Save only fast growing, meat type animals.
6. Follow thoro sanitation and disease control program.
7. Use up-to-date equipment. Farrowing stalls, creep feeders, shades and sanitary wallows are all helpful.

Manure Benefits Last Two Years

Beneficial effects of green manure or stable manure are mostly gone after about two years, say Michigan scientists.

In Michigan tests, sweet clover plowed down every two years increased row crop yields by 23 percent. Ten tons of stable manure every two years increased yields only five percent.

When used together, the increase averaged 28 percent. Big increase from sweet clover was due largely to the nitrogen supplied. Stable manure probably gave most of its increase thru other effects.

Less Nitrogen At Low Temperatures

Formation of nodules on roots of birdsfoot trefoil is not always a sign that micro-organisms are fixing nitrogen.

This is especially true at low soil temperatures. Some strains of organisms fixed nitrogen as long as nodules were formed. Others formed nodules but fixed no nitrogen when soil temperatures dropped below 50 degree F.

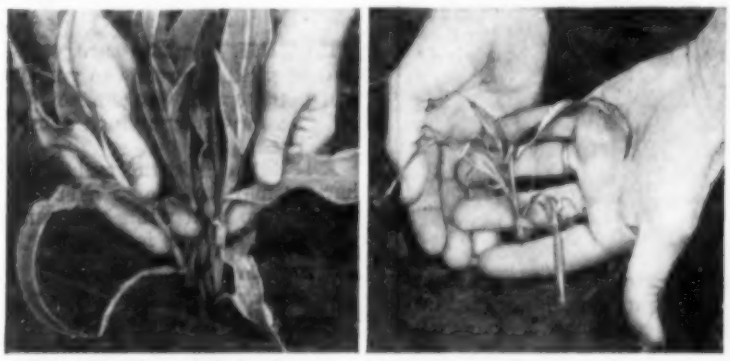
Since soil temperatures lower than this may occur for periods during normal planting season for trefoil, this may partly account for stand failures. That's according to Cornell University work.

Grow farm-proved **KINGSCROST HYBRIDS** *protected by* **TWP** *seed treatment...*

Get more from every acre!

New corns added this year have typical KX vigor and high yield ability

WIDE, LONG LEAVES and vigorous plants are typical of all Kingscrost varieties. This extra food-manufacturing area of the Kingscrost leaf helps form those large, well-filled ears needed for top corn yields. Lewis Geurkink, shown inspecting his field of a new Kingscrost hybrid says, "This corn started out fast in the spring and kept going. The plants and ears are way ahead of other corns of this maturity. In fact the ears were beginning to dent early in August. Good crops like this are why I plant most of my corn acreage with Kingscrost hybrids."



WIREWORM DAMAGE STOPPED by new TWP seed treatment. Plants above are pictured on the same field the same day. Infestation of wire worms did little harm to Kingscrost (left), but seriously thinned the stand and stunted the growth of the other hybrid (right). New TWP—"Two Way Protection" seed treatment—on Kingscrost controls kernel feeding of other soil insects, too.

CHECK OVER THESE *NEW* KINGSCROST VARIETIES

Choose the one that fits your farm

IF YOU'RE NOW GROWING THIS KINGSCROST VARIETY	HERE'S THE NEW KINGSCROST VARIETY YOU'LL WANT TO TRY	
KS6	KS5	Outstanding yielder. Early corn for northern Iowa. Excellent kernel depth on large ears. Strong roots, stalks and shanks mean less down corn, fewer dropped ears. Dries rapidly in the fall.
KO5	KO4	Shorter plant height than KO5. Stronger plant and shorter shank as well. Maturity is the same as KO5. Yields are equal or better. Medium maturity for northern Iowa.
KT	KT6	About 5 days later than KT. A medium to early maturity for central Iowa. A widely adapted corn with fast spring vigor. A clean picker. Long, well-filled ears carry big deep kernels to insure a high shelling percent.

For outstanding performance under heavy plant population grow Kingscrost KL1. Early hybrid for northern Iowa.

Farm performance of the newest Kingscrost hybrids is bearing out what years of field trials and actual farm tests promised. Like all Kingscrost hybrids, the new varieties offered generally for the first time this year already have proved themselves worthy of the Kingscrost name. Growers of the new corns reported that the plants were faster-growing, had strong roots and stalks, and gave higher yields than ever before.

ALL KINGSCROST DEPENDABLE

You can count on the best possible results from any hybrid developed by Northrup King. Behind each Kingscrost variety stands thirty-four years of experience in breeding hybrids. These corns also undergo years of trials in research plantings. Finally, the hybrids must give good results in full-scale farm use. Before release, a Kingscrost hybrid must prove it can produce a good corn crop under a wide range of soil types, weather conditions and farming methods.

YIELDS UP WITH TWP

Only Kingscrost hybrids offer the extra safety of TWP—"Two Way Protection" seed treatment. Each kernel is protected against attacks from hidden soil insects as well as fungus diseases. Cornfield stand counts during the past several years showed farmers growing TWP treated Kingscrost *averaged* over 30 more plants per thousand! Thus your corn yield increase from TWP can more than repay your entire seed corn cost!

ORDER KINGSCROST NOW

You'll want high-yielding Kingscrost in your fields next year. So talk soon with your Northrup King dealer or his salesman. In Iowa, you have 10 different Kingscrost hybrids to choose from. Be sure to ask about the Kingscrost varieties described at the left. Plan now to get more from every acre with Kingscrost.

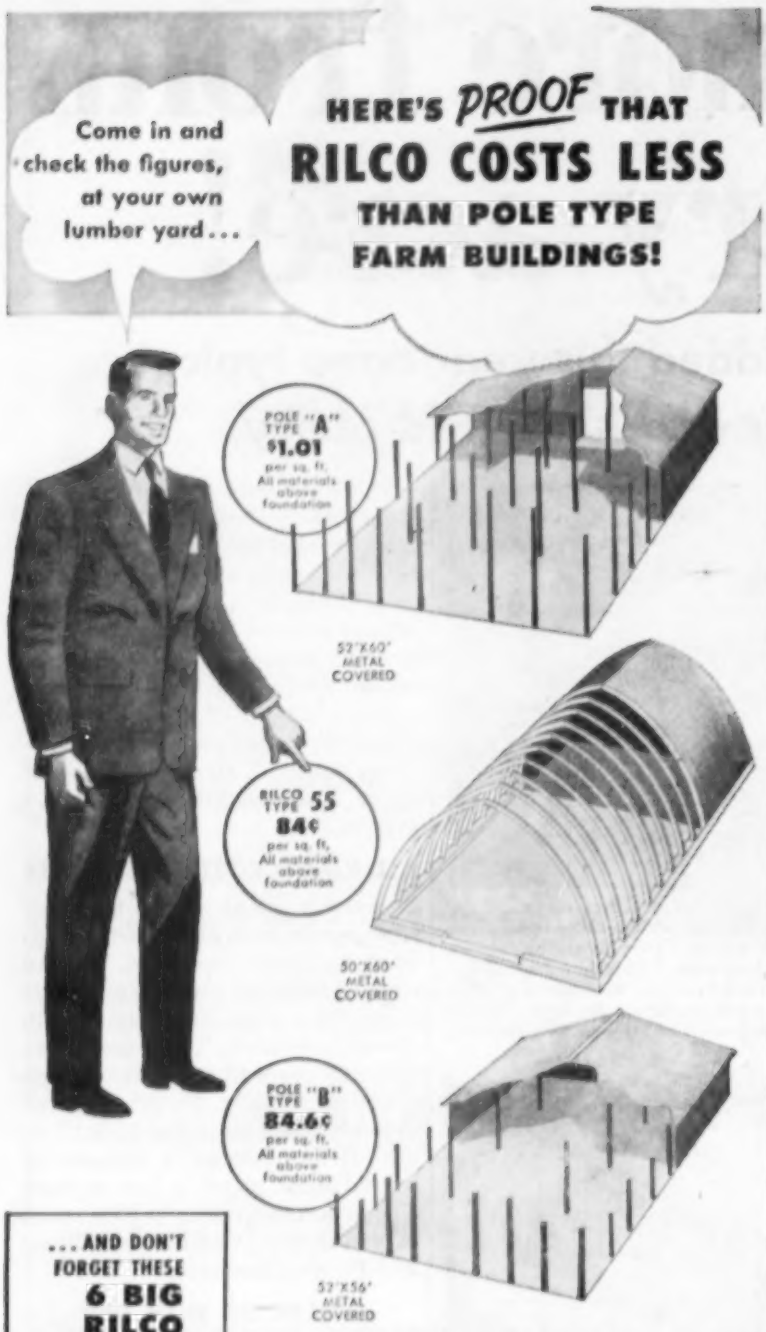
Get more from every acre with products of **NORTHRUP KING FARM SEED RESEARCH**

KINGSCROST

NORTHRUP, KING & CO.

Minneapolis, Minn. • Madison, Wis. • Rochelle, Ill. Waterloo, Iowa

NK



...AND DON'T FORGET THESE 6 BIG RILCO "EXTRAS"

1 No interior posts!
2 Complete flexibility of use to meet changing farm needs!
3 Stronger—stands heavy wind and snow loads!
4 Lowest upkeep expense!
5 Fast, easy erection!
6 Looks better, lasts longer!

Have you ever heard the claim that pole type farm buildings are the cheapest you can buy? DON'T YOU BELIEVE IT! The figures shown above, computed from published material lists on the two best known pole type buildings, and on RILCO's Type 55 material list, show that RILCO COSTS ARE LOWEST—for materials required.

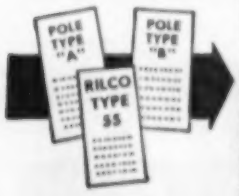
In addition, think of the marvelous extra values RILCO offers. RILCO rafters are laminated from selected Douglas fir, bonded with waterproof glues under tremendous pressure. They're precision cut at the factory, delivered complete with hardware for amazingly fast, easy, low-cost erection. RILCO buildings are permanent . . . can't sag, buckle, shift or twist. They stay tight, strong and beautiful year after year after year!

See your local lumber dealer for proof of RILCO's lower cost! Mail coupon below for literature.

RILCO GLUED LAMINATED RAFTERS

For your protection and convenience, sold only through your local lumber dealer

WANT TO SEE THE ACTUAL MATERIAL LISTS? **SEE YOUR LUMBER DEALER!**



RILCO LAMINATED PRODUCTS, INC.
2933 First National Bank Bldg., St. Paul 1, Minn.
Please send new free Rilco Barn Catalog and information on the following farm buildings:
☐ Two-Story Barns ☐ Machine Sheds
☐ One-Story Barns ☐ Hog and Poultry Houses
Name_____
Address_____
Town_____ State_____

Field adjustment of snapping rolls is the key to holding down shelled corn loss, says Albert Paulsen of Clinton county, Iowa. So before you go to the field, make sure that adjustments can be made easily and accurately.

Picker ready to go?

Here are points that should be checked before starting harvest

IT'S TIME to make sure your corn picker is ready to go. If you need repairs, get 'em now—before your dealer's stock of repair parts gets low.

A breakdown in the middle of harvest may find your picker sitting in the field while you canvass nearby towns for repairs.

Here are important points to check in getting your picker ready for the field:

- First, find the operator's manual that came with your picker. It's your basic guide in making the proper adjustments—before you go to the field and after you start picking.
- Clean the picker thoroly, inside and out. Wash the chains in a safe solvent. Dry them and brush with light oil.
- Inspect for worn or broken parts. Pound out dents or repair cracks in gatherers and side sheets.
- Lubricate the picker completely. Tighten any loose nuts. Replace missing cotter pins.
- Make sure gatherer points work freely. That'll help pick up low-hanging ears.
- Check tension and timing of the gatherer chains. Lugs of the outer chain should pass midway between the lugs of the inner chain. On most pickers, gatherer chains should have one-half to one and one-half inches slack. See your operator's manual.
- If you have a two-row picker, be sure it's set for the same width as your corn rows. Otherwise, low-hanging ears will be missed. And high ears will be whipped off the stalks.
- Check the snapping rolls carefully. Badly worn rolls won't snap the ears properly. You can increase aggressiveness of snapping rolls by adding lugs, pegs or spiral strips. But these devices are intended for use when corn is unusually dry—not to restore normal efficiency of badly worn rolls.
- Clean and lubricate so that snapping roll spacing can be adjusted easily and accurately. Often it's necessary to change this adjustment several times during the day as field conditions change.
- Inspect the conveyor chain that carries snapped corn to the husking rolls. Be sure it has the proper slack.
- Husking rolls should just touch each other for effective husking. Make sure rubber rolls are not badly worn and have not been softened by oil or gasoline. Check wood rolls for splits or cracks.
- Check the wagon elevator chain for worn links and loose or missing paddles.
- Clean slip clutches and replace worn clutch dogs or clutch facings and broken springs. Slip clutches are for protection of drives and working parts. Be sure they're working.
- Most manufacturers give a basic setting for trash-roll tension in their operator's manuals. But final adjustment must be made in the field—to move stalks, husks and trash off the husking rolls properly.

Most important part of the pre-season picker service is the "dry run." Operate the picker slowly at first—then at full speed.

Listen for slipping clutches or other indications of trouble. Check bearings for heating.

"Alvin, you old sweetheart! I thought you'd forgotten all about our anniversary."

Rotations Help Soil Structure

Rotation farming pays off in better soil structure, say University of Wisconsin soil scientists.

Amount of organic matter in the soil has a lot to do with its structure. If there is plenty of organic matter, soil particles form into good sized crumbs. If there's not enough, soil packs down and makes plant growth difficult.

Soils in four-year rotation—corn, oats, meadow, meadow—had best structure during meadow years. And poorest structure during oats year.

The meadow builds up organic matter by adding lots of roots to the soil. Top growth adds still more if it is plowed under.

The study also shows that silt loam soils have better structure if limed to pH 6.5. That's just slightly acid — recommended amount for most crops.

Amount of clay in the soil was less important than amount of organic matter. Activity of micro-organisms played a big part in soil structure. They break down plant materials to make the organic matter which improves soil structure.

Do Ewes Need Extra Salt?

Maybe ewes don't need salt. At least, that's the indication from two years of tests in Wisconsin.

Western ewes in the experiment station flock are raising their second crop of lambs. Some of these have had no salt during the 18 months they have been on test.

Other groups have been getting iodized salt, block salt and trace mineralized salt. So far, there have been no differences between the groups.

The no-salt ewes have had just as many lambs. Their lambs have gained just as well, used about the same amount of feed, and produced the same amount of wool.

These tests suggest that these ewes actually got enough salt in their ration. More information is needed on the salt content of feeds commonly used for sheep.

COMBINATION of hormone injections, diet restriction and exercise can help many heifers that fail to breed because of poor development of reproductive organs. Work was done by a North Carolina veterinarian.

now it's worth while! to help *Each Hen* lay

3 EXTRA EGGS per month!

Higher egg prices this season reward EVERY egg producer—and improved egg marketing regulations now mean extra rewards for flock owners who'll feed and manage their flocks to get top-quality eggs.

Let GOOCH'S BEST Laying Feeds with *LayLac* Help You Get Those Extra Eggs!

Frankly, we're really proud and excited about the new egg-maker additive of ours, LayLac! On our own test farms and on the farms of hundreds of Gooch users, LayLac has increased egg production as much as "3 extra eggs per hen per month."

We've tested and re-tested—pitted our best feed without LayLac against the same feed *with* LayLac. We've seen what an astonishing difference LayLac makes! We know that with good birds and good management, GOOCH'S BEST with LayLac should help you, too, to get those extra eggs you want.

This year make sure you get the "3 extra eggs" laying feed. Note the test-farm report and the records of typical flock owners. Then, see your GOOCH dealer for the type of GOOCH'S BEST Laying Feed with LayLac that best fits your needs.

NOTE! *LayLac* is our own formula of "egg-maker" additives, put only into GOOCH'S BEST Laying Feeds. It cannot be bought separately for addition to other feeds; and we do not sell or share our formula with anyone else. To get LayLac, get GOOCH'S BEST Laying Feeds.

GOOCH'S BEST *Feeder-Proved* FEEDS are part of GOOD MANAGEMENT!

GOOCH RED CIRCLES ARE VALUABLE!
Collect and trade them for top-quality merchandise.

GOOCH'S BEST — GOOCH RED CIRCLES ARE VALUABLE! COLLECT THEM

GOOCH FEED MILL CO.
Lincoln, Nebr. Council Bluffs, Ia. Salina, Kans. Dalhart, Tex.

Gooch Test Farm And Flock Owners Report:

From report of Gooch Poultry Farm, Lincoln, Nebraska:
"On the basis of eggs per hen housed, our 1953-54 flock laid at the rate of 228.9 eggs per hen per year; the 1954-55 flock laid 267.5 eggs per hen. This is an advantage of 38.6 more eggs per hen per year, or a little more than 3 extra eggs per hen per month.
"Since these 2 flocks were of similar breeding and received the same type management, improved nutrition obviously played an important part in this outstanding production gain. The 1954-55 flock had the full advantage of LayLac—the earlier flock did not."

Harold Walters, Pretty Prairie, Kans., says:
"Since LayLac has been added to Gooch's Best, my chickens have increased from 65% to 71% average... Been using Gooch's Best the past 5 years and will sure include it in my poultry program in the future."

Brunk Lauterbach, Grundy County, Ia., says:
"My 600 pullets averaged 460 eggs thru this past winter... top production was 82.5%. This is a big increase in my egg production over the previous year—and the lowest mortality rate I've ever had. I believe the added LayLac in Gooch's Best made the difference."

GET THIS FOLDER ON
"Managing Your Flock For Extra Eggs, Better Eggs"
What can you do to get more top quality eggs? You will find answers to your questions in this useful up-to-date folder. Get your copy from your GOOCH dealer.

SPECIAL OFFER!
"All-Around" EGG CLEANER
2-sided for double the "mileage." Make your dirty or stained eggs worth 2c to 5c per dozen more by always having them clean. Ask your Gooch Dealer!

It Pays to FALL-Fertilize with

KEITH SAYERS, of Humboldt, Iowa, shows you the difference in growth of 1st cutting alfalfa; left, topdressed with 400 lbs. 18% NORMAL Superphosphate per acre; right, no topdressing. On 3 cuttings, topdressing paid Mr. Sayers $29.93 per acre profit over fertilizer cost.

ALFALFA: $29.93 PER ACRE NET

FARMERS throughout this part of the Corn Belt now find that Fall fertilization pays—there's more time, and returns are as good or better than with Spring applications.

Take the friendly tip of these Iowa farmers and topdress new legume seedings this Fall with 18% NORMAL Superphosphate or AGRICO PHOSPHATE & POTASH . . . put AGRICO FOR TOPDRESSING 10-10-10 or AGRICO PHOSPHATE & POTASH on old legume seedings to be plowed this Fall or next Spring for '56 corn . . . and topdress stalk ground this Fall for '56 oats with AGRICO FOR OATS 10-20-0, where extra nitrogen is needed.

Typical Extra-Profit Results

Speaking of topdressing alfalfa, Keith Sayers, of Humboldt, Iowa, wrote on Aug. 11, 1955:

"I topdressed my alfalfa with 400 lbs. of 18% NORMAL Superphosphate per acre, and as a check applied 200 lbs. 18% NORMAL on part of the field, leaving another strip without any fertilizer.

"On 3 cuttings in 1955, the yield with 400 lbs. 18% NORMAL per acre was 7050 lbs. dry hay per acre, or almost one-half ton MORE than with 200 lbs. of 18% NORMAL, and MORE THAN DOUBLE the yield with no topdressing.

"At $20. a ton for alfalfa hay, the NET PROFIT over fertilizer cost was $29.93 per acre with 400 lbs. of 18% NORMAL as compared with the unfertilized alfalfa, and $6.55 MORE net profit per acre than I got with 200 lbs. 18% NORMAL.

"*In other words, 400 lbs. of 18% NORMAL Superphosphate*

OPEN SOON . . .

Large, Modern A.A.C. Co. Fertilizer Plant near Humboldt, Iowa.

Located on a 56-acre site, 3 miles north of Humboldt, Iowa, on the east side of Route 169, where it crosses the C & NW Ry., our new plant will have an annual capacity of 80,000 tons of fertilizer.

This plant will be ready to ship 18% NORMAL Superphosphate in bulk on Sept. 19, 1955. Later this Fall, well-cured mixed fertilizers will be ready for shipment. These fertilizers are also available at our Fulton, Illinois plant, just across the Mississippi from Clinton, Iowa.

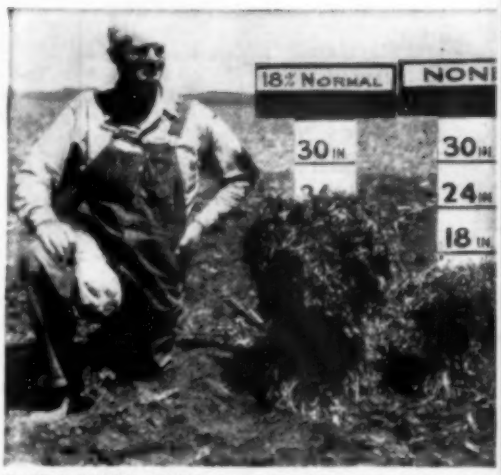
CLOVER: $27.22 to $30.65 EXTRA

"Of late years," writes Floyd H. Harding, of Melvin, Iowa, "we have noticed a definite phosphate deficiency, particularly on legumes. We are interested in good clover, as our cheapest and best source of nitrogen.

"This year we had 18% NORMAL Superphosphate applied to 350 acres at 400 lbs. per acre. This big operation would have been difficult without bulk-spreader service, which did the job quickly and economically.

"On June 17, 1955, we checked our clover fields and the clover fertilized with 18% NORMAL Superphosphate was about the best I have ever seen—over 24 in. tall and yielding close to 3 tons per acre. This kind of clover does a real job of soil building.

"The topdressed clover outproduced the unfertilized by 3800 lbs. MORE dry hay per acre. At $20. a ton, that is $30.65 per acre over the cost of the fertilizer. *The 18% NORMAL paid back over $5. for each dollar invested, in less than 4 months' time, on one cutting of hay!*"



FLOYD H. HARDING, of Melvin, Iowa, shows difference in growth between (left) topdressed with 400 lbs. 18% NORMAL Superphosphate per acre and (at right) which received no topdressing.

All A. A. C. Co. Fertilizers are available in bags or in bulk

Manufactured only by **The AMERICAN**

AGRICO or 18% NORMAL

PROFIT OVER FERTILIZER COST!

per acre returned $5.33 for each dollar invested."

"$37.57 NET PROFIT per Acre on My Crop"

Other farmers in this State report equally profitable returns. A. J. Poeppe, of Emmetsburg, Iowa, wrote on July 19, 1955:

"I was dissatisfied with my 1954 alfalfa crop—the hay was very short and the stand very thin. So I topdressed 10 acres of this 15-acre field with 18% NORMAL Superphosphate, 300 lbs. per acre, leaving 5 acres unfertilized, for comparison. On 2 cuttings in '55, I got 7255 lbs. dry hay per acre from the 18% NORMAL area, against 2980 lbs. from the unfertilized part of the field.

"The value of the extra hay over fertilizer cost was $37.57 per acre, which means $375.70 EXTRA net profit on 10 acres, or a return of $8.25 on every $1. invested in topdressing with 18% NORMAL Superphosphate."

Get AGRICO and 18% NORMAL Now

These crops were topdressed with 18% NORMAL Superphosphate. If your soil is deficient in potash as well as phosphorus, it will pay you to apply AGRICO PHOSPHATE & POTASH, see recommended applications in box at right, below.

If in doubt as to the plant food levels on your farm, see your nearby A.A.C. Dealer, who will be glad to have our Soil Service analyze your soil and give you a complete report and economical recommendations, without cost or obligation to you.

Get your Fall fertilizer requirements now from your nearby A.A.C. Dealer.

A. J. POEPPE, of Emmetsburg, Iowa, compares growth of 1st cutting alfalfa. (left) unfertilized; right, topdressed with 18% NORMAL Superphosphate. On 2 cuttings, Mr. Poeppe reports $8.25 return on each $1. invested in 18% NORMAL Superphosphate.

NET PROFIT PER ACRE!

"Last Fall our clover didn't do very well, so we applied 18% NORMAL Superphosphate on a 20-acre field, part at 300 lbs. per acre and part at 600 lbs. per acre, leaving an unfertilized check strip in the middle of the field," writes Raymond Frey, of Melvin, Iowa.

"As the fields are soft in the Spring, we applied the 18% NORMAL when the ground was frozen. No doubt the early Spring rains and thawing snow took the phosphate down to the roots quickly, because our clover grew very fast this Spring and has looked particularly good. Today (June 17 '55) we cut the hay and checked the yields, which were quite amazing.

"The 600 lbs. 18% NORMAL outyielded the unfertilized strip by 3880 lbs. of dry hay per acre, for a net return of $27.22 per acre over fertilizer cost. The 300-lb. application outyielded the unfertilized strip by 2080 lbs. dry hay per acre, for a net return of $15.01 over fertilizer cost.

"It pays to use 18% NORMAL Superphosphate, and enough of it to do a top-profit job!"

RAYMOND FREY, of Melvin, Iowa, holding scale used by A.A.C. Soil Service in checking test cutting of clover hay

FALL FERTILIZER RECOMMENDATIONS

TOPDRESS NEW LEGUME SEEDINGS with 18% NORMAL Superphosphate or AGRICO PHOSPHATE & POTASH, 500 to 600 lbs. per acre.

TOPDRESS OLD LEGUME SEEDINGS to be plowed this Fall or next Spring for corn—apply 18% NORMAL Superphosphate or AGRICO PHOSPHATE & POTASH, 0-20-20 or 0-14-14, 500 to 600 lbs. per acre.

TOPDRESS CORNSTALK GROUND THIS FALL for next Spring's oats—apply AGRICO FOR OATS 10-20-0, where nitrogen is needed, or AGRICO PHOSPHATE & POTASH or 18% NORMAL Superphosphate, 500 to 600 lbs. per acre.

IT PAYS TO USE

AGRICO® —THE NATION'S LEADING FERTILIZER

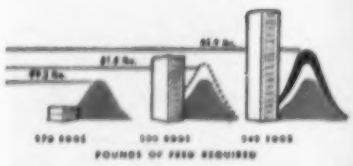
AA QUALITY FERTILIZERS • AA QUALITY GROUND PHOSPHATE ROCK

18% NORMAL Superphosphate

AGRICULTURAL CHEMICAL Co. Humboldt, Iowa • Fulton, Ill. • East St. Louis, Ill.

Laying hens must eat EXTRA feed for EXTRA production

but they must like it to eat it!



Every hen requires a certain amount of feed for body maintenance. It's the feed she eats in addition to that needed for body maintenance which produces the extra eggs and extra profits.

Honeggers' Feeds rank first in palatability because they're enriched with HYPER-ENERGIZER, the exclusive combination of ingredients and scientific manufacturing know-how used only in Honeggers' Big "H" Feeds.

These nutritious, palatable feeds have an appealing texture and freshness. Shown at right is the result of a completely independent Feed Palatability Test conducted by the agricultural department of a well-known Midwestern university. Honeggers' ranked first over all other commercial feeds and experimental rations tested.

Big "H" Feeds look different, feel different, smell different, and taste different . . . Honeggers' Feeds make the difference for extra profits.

PALATABILITY TEST

Name of Feed	Lbs. Eaten
1. HONEGGERS	25
2. Commercial Feed A	18
3. Wisconsin Ration	17
4. Commercial Feed B	13
5. Commercial Feed C	10
6. Class Ration	10
7. Commercial Feed D	9
8. Commercial Feed E	8
9. Commercial Feed F	7
10. Commercial Feed G	6
11. Commercial Feed H	6
12. Commercial Feed I	5
13. Commercial Feed J	4½
14. Commercial Feed K	4½
15. Commercial Feed L	4
16. Commercial Feed M	4
17. Commercial Feed N	4

See your Honegger Big "H" Feed Dealer or Honegger Associate Hatchery for complete details.

HONEGGERS'

FEED & MILLING DIV., FAIRBURY, ILL. • HATCHERY DIV., FORREST, ILL.

Service bureau

Distilled Water For Steam Iron

To the Editor: I have an electric steam iron. And have a hard time getting distilled water to use in it. Where can I get water for the iron? —Mrs. J. D., Knox county, Ill.

You can buy distilled water from most drug stores, appliance dealers and filling stations.

But strained rain water works well. Or you can save and strain the water from defrosting your refrigerator for use in the iron.

Must Register If He Hires Help

To the Editor: We hire some neighbor boys to help us during planting, cultivating and harvesting crops. What must I do to meet the requirements of the social security law?—E. P. N., Sioux county, Iowa.

You must register with the Internal Revenue Bureau as a farm employer if you will pay one or more hired men $100 or more cash wages during the year. Your postmaster, social security fieldman or your local revenue officer can furnish information.

You should require every person that works for you to have a social security number.

Deduct two percent of cash wages from your employee's pay check. You will match this money with an equal sum from your funds. This social security tax is sent to the director of internal revenue only after you have a total of $100 social security tax withheld.

When you have deducted $50 from your employees' wages as social security tax, you add $50 and send it in at that time whether it's at the end of a calendar quarter or not.

If your total payroll for the year is $2,500 or less you send in the social security tax only once a year. Then it's sent in with your income tax return.

Hail Damaged Soybeans

To the Editor: We had a hail storm that completely destroyed 70 acres of soybeans. I had full coverage hail insurance. But the insurance company wants to pay less than half on the beans and practically nothing on other crops. All my neighbors agree that I had a total loss on the beans. What can I do to get a satisfactory adjustment from the insurance company?—M. O. T., Winnebago county, Iowa.

Your insurance policy probably outlines a procedure to follow in case you and the insurance company's adjuster can't agree on a settlement. After all the terms of the policy have been met, and you still can't agree on a settlement, you have a right to appeal to the courts for a settlement.

If you choose to take the case to court, you will need the services of an attorney. You should choose the attorney and present him with all the facts in the case. Then follow his suggestions.

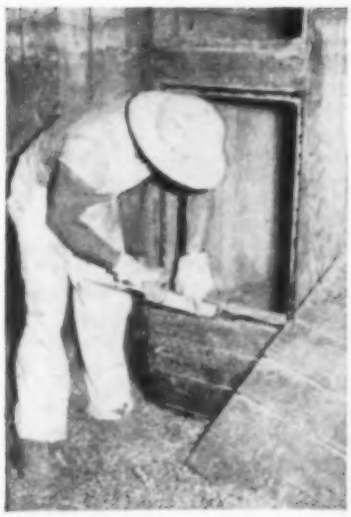
Disagree Over Wrought Iron

To the Editor: We recently bought some wrought iron furniture. Now one of my neighbors says that it is cast iron. What is the difference? —Mrs. H. O., Mahaska county, Iowa.

A Better Business Bureau association book defines the two: "Wrought iron is a term applied to iron having a low carbon content, which is bent, twisted or hammered into shape. Metal products made by casting iron in a mold are 'cast iron' products."

Strengthens hog feeder . . .

Improvement over the usual split range boiler hog trough is shown above. Trough partitions of half-inch square rod have been added to strengthen the trough and to lessen fights when several hogs eat at a time. Legs are solidly welded brackets of heavy strap iron.



To prevent spoilage around doors of his silo, Harold Gardner of Lee county, Iowa, seals cracks with a calking gun. Prepared cartridges or roofing cement can be used in the gun.

Questions Polls On Social Security

To the Editor: I would like to know where the survey was made that showed farmers wanted social security. I have not found anyone who heard anything of a survey. And I have failed to find anyone who is for social security. — Lloyd Brierly, Mercer county, Illinois.

Wallace-Homestead Polls which have consistently showed approval of social security for farmers, are made in Iowa. A cross-section of Iowa farm folks is questioned.

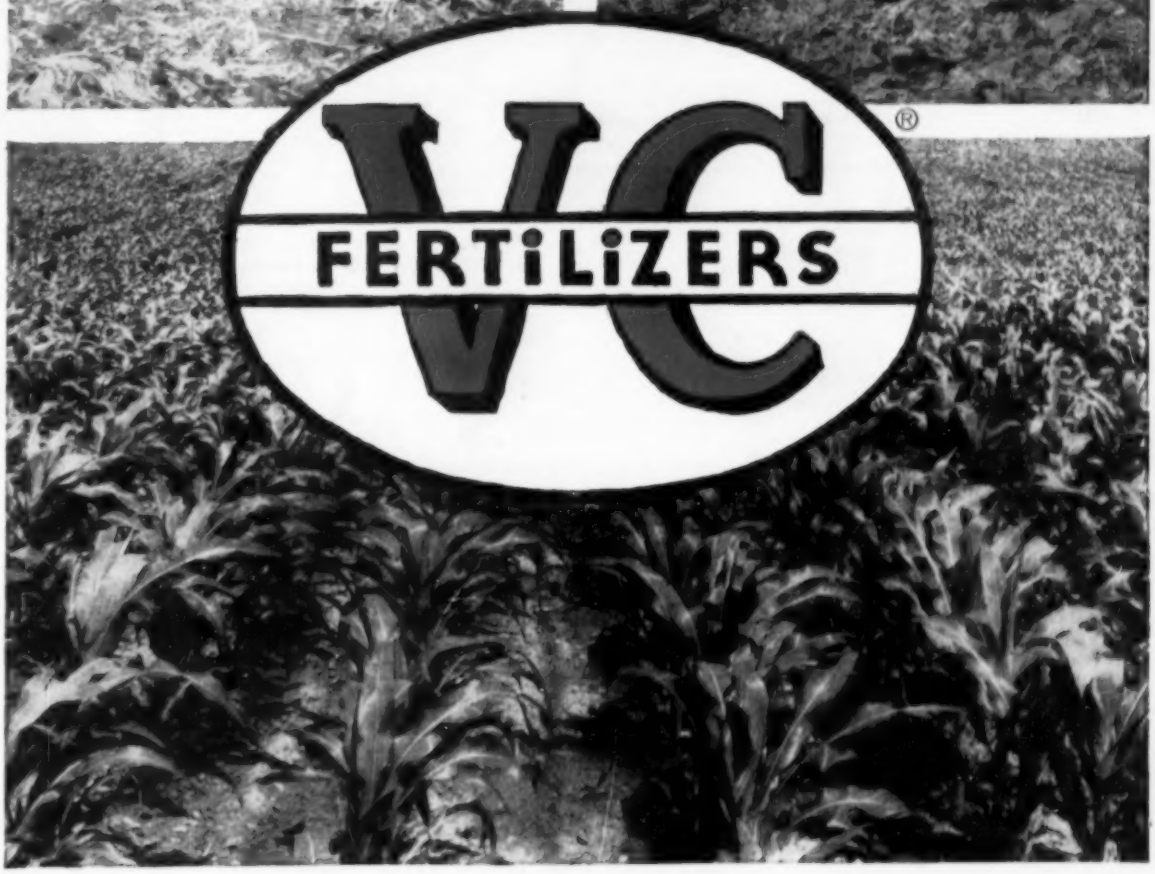
Similar polls with similar results have been made by the Wisconsin Agriculturist in Wisconsin. Agricultural experiment station studies in Connecticut and Texas also have shown that most farmers in those states approve social security. As does a University of Wisconsin study in the dairy state.

Can't Collect Grain Storage Fee

To the Editor: I got a loan from ASC to buy a grain bin. This loan was to be paid in four annual installments. I resealed some of my corn in the bin. The storage fee is due, but the county ASC office says they must apply the storage fee on the loan. I don't owe that much and don't think they should apply all the storage payment on the loan. Do they have authority to hold back all of the storage payment even if it's more than this year's payment?—B. N., Kossuth county, Iowa.

The Iowa state ASC office says that they are required by the National ASC office to apply all grain storage payments to any unpaid balance on grain storage facility loans. The grain storage payment must be applied on the loan even tho you may be on schedule with your repayments on the loan.

CORRECTING FAULTS is like tying a necktie; we can do it easier on ourselves than on someone else!—Walnut Bureau.



How to make your fall plowing pay you bigger profits next year

Fall plowing gives you a head start on next year's crop. It saves you labor and valuable time in the spring when you are busy and the soil is often too wet for your tractor. You can greatly increase your profits from fall plowing, by broadcasting 500 to 600 pounds of V-C Fertilizer per acre before you plow. V-C Fertilizer, plowed down now, pays you big profits two ways: **1)** It encourages rapid decay of straw, stubble and other crop residues into plantfood-rich organic matter. **2)** V-C Fertilizer, plowed deep, stays in the root zone to feed your crops all next summer, even if the weather turns dry. State colleges are recommending fall fertilizer plow-down on adapted soils. Plow-down plenty of V-C Fertilizer now to make profits come up in 1956!

See Your V-C® Dealer

V-C Fertilizers are made in many different analyses. Your V-C dealer will supply you with the right V-C Fertilizer to fit your plow-down needs. Ask him about top-quality **V-C PROLIFIC,** the rich, mellow blend of better plant foods fortified with important minor elements lacking in many soils. V-C Fertilizers and V-C Superphosphates are backed by 60 years of experience in serving millions of farms in many states. Your V-C dealer is a good man to know and do business with. *See him today!*

Here's real fence planning help for you!

IN this publication, *Fence Planning Saves*, you will find information and material to help you plan the most practical and efficient layout for your farm or ranch.

In addition to general information, included in the folder are an ASC or SCS land-use scale and tracing grid on which you can draw the outline of all your fields. This will enable you to determine exactly how much fencing you will require. There is also a cost sheet for figuring the complete cost of all necessary materials. Efficiently used, this folder will simplify your fence planning, will help you get a better finished job.

Fence Planning Saves **also contains the complete story of the advantages of pressure-creosoted posts. It shows by a cost analysis how the use of pressure-creosoted fence posts can materially reduce the over-all yearly cost of fence.**

USS CREOSOTE—is an ideal preservative for wood fence posts. Records show that pressure-creosoted wood fence posts last up to seven times as long as untreated ones, are highly resistant to damage by weather, soil conditions, and attack by termites, fungi and other destroyers. But let this leading farmer tell you about his experience with pressure-creosoted fence posts:

"I have about 500 pressure-creosoted posts on the place at present, and intend to replace all posts in the future with pressure-creosoted," says Mr. J. A. Bloomberg, Dearborn, Missouri. "I expect these pressure-creosoted posts to last at least 30 years. They're easier to work with than untreated posts, and they hold staples better."

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☐ I would like to know the name of my nearest supplier of pressure-creosoted fence posts.

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Save all the beans you can. Marvin Dohse of Clinton county, Iowa, checks losses behind the combine. "Go slow and keep the sickle low," he advises.

Cut combining losses

Get cleaner beans with fewer splits by following these tips on careful combining

CAREFUL harvest may pay big on soybeans this fall.

Dirty beans—or too many splits—can bring a price dock or keep you from getting a government loan.

Amount of foreign matter allowed in each grade was reduced one percentage point starting September 1. Beans with more than five percent foreign matter will not be accepted for either loans or purchase agreements.

Number one beans may have a maximum of one percent foreign matter and 10 percent splits.

Number two beans may have two percent foreign material and up to 20 percent splits. For number three beans, up to three percent foreign material; 30 percent splits. Number four, up to five percent foreign material; 40 percent splits.

Whether you plan to sell or seal, it will pay to keep beans as clean as possible.

Of course, the first place to start is by growing clean beans.

There's still time to cut big weeds and corn plants out of beans. It is almost impossible to remove small kernels of corn from beans.

Most farmers harvest beans with more splits than necessary.

Even before going to the field, cut cylinder speed by about half the setting for oats. Under dry conditions, you may want to slow it down even more than that.

Cylinder speed can be reduced by changing pulleys on some combines. Others have a quick change adjustment. Probably you'll have to run combine slowly to make the adjustment on these.

Don't try to reduce cylinder speed by reducing the power take off speed. That slows down the whole combine and gives poor operation.

Chances are you'll need more cylinder clearance. Best setting will probably be between 5/16 and 7/8 of an inch clearance.

If beans are dry you may need to remove some concave bars.

Ten to 20 percent splits is a sign of over threshing at the cylinder.

Whole threshed beans coming back to the cylinder in the tailings can cause extra splits, too.

Cutting down on foreign material is another problem most farmers face.

Check your instruction book. Maybe soybeans call for special sieves. Sieve, chaffer and fan settings are important in keeping beans clean.

Experience is a good guide. Otherwise, here is a place to start. Then final adjustments can be made in the field.

Set sieves about half open. If you get too much dirt and foreign material, close them a little. If beans ride over into tailings, open a bit more. Proper setting lets few if any whole threshed beans get into tailings.

Start with chaffer and chaffer extension about two-thirds open.

Some combines have a special cleaner which gets dirt and small weed seeds out of threshed beans. This might be just enough to let your beans into a higher grade.

Careful operation of combine can save more beans, too. Every four or five beans per square foot behind the combine means a

(Continued on next page)

How to save more beans

(Continued from last page)

bushel per acre left in the field.

Here are some things that help keep harvest losses low:

- Harvest at the right time. Delay may greatly increase shatter losses ahead of the combine.
- Keep sickle sharp. Clean cut of stem means less plant movement and fewer pods shattering.
- Set reel so it lifts plant slightly and drops it on conveyor canvas.
- Cut plant close to the ground. No need to leave more pods than necessary on stubble portion of the plants.
- Field adjust so few beans carry over with straw. This is often a sign of overloading combine with straw or weeds. Or that combine is operating too slow.

You can't expect the same combine setting to do the job for beans every year. Or even all thru the season. Sometimes it is necessary to change adjustments thru the day as beans dry out.

Combine adjustment is a series of compromises. And overall efficiency is the goal.

Dave Noble of Humboldt county, Iowa, raises 30 to 40 acres of soybeans each year. He's not far from town and his machinery dealer.

"I have a trained mechanic check my combine and adjust it before starting on beans. Then I make minor adjustments in the field," he says.

"You don't have to lose many beans on 30 acres to pay for the expert help," he adds.

But like most farmers, Leo Bartzen, also of Humboldt county, doesn't call in a mechanic. He owns a combine with a neighbor. Together, they make their own adjustments.

"Two men working together do the best job of adjusting a combine," thinks Bartzen. "One can operate the combine while the other watches for spots that need adjustment."

Wet weather let weeds get an extra start in Bartzen's beans this year.

"I'm mighty glad our combine has a cleaning unit to take most weed seeds and dirt out of beans this year. Especially now that grade requirements have been stiffened," he adds.

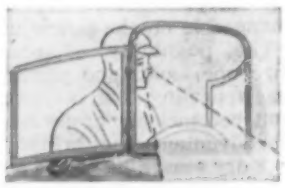
Tho you are putting extra attention on getting high quality beans, don't forget safety. Most adjustments should be made only after combine has been stopped.

Look for these FIVE FEATURES before you buy a tractor heater!

Hinson Weather Brake gives you more for your money!

1 WRAP-AROUND WINGS

Side wings can be folded-in around driver for extra protection. Up to 40% more engine heat is locked-in the cab . . . and your body stays warm as well as your feet.

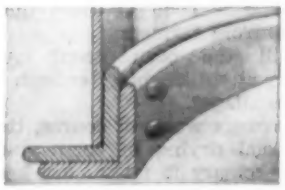


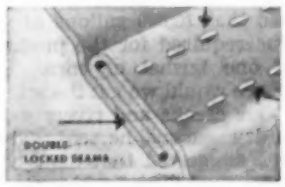
2 FURROW-VIEW WINDSHIELD

Bottom of windshield is way below eye level. You can SIT DOWN AND SEE the furrow and front wheels without the slightest strain. Triple-thick plastic — no shadows, no distortion.

3 ANGLE-IRON FRAME

Heavy-gauge angle iron is more rigid than regular rod-type frames. Stays solid — won't shimmy or shake. And Weather-Brake hardware is rustproofed, finished in green BAKED-ON enamel.



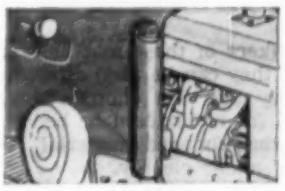


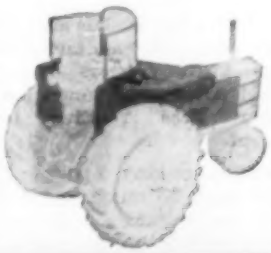
4 DOUBLE-STITCHED SEAMS

Heavy weatherproofed canvas is made with double-locked seams at points of strain; sewn with high-tensile Nylon. It's the strongest, longest-lasting cover used on ANY tractor heater.

5 ROLL-BACK FLAPS

Handy heat flaps can be rolled back, then snapped in place on warmer days. Nothing to remove, no separate sections to lose . . . and no cold-air gaps when flaps are in "heat" position.





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ACTON — Everhart Impl. Co.
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APLINGTON — Burton & Bergman
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AUDUBON — Lund & Swanson
BADGLEY — Gunsland Implement
BARNES CITY — Robertson D.X. Service
BATTLE CREEK — Farmers Mercantile
BAYARD — Bard Motor Co.
BELMOND — Farmers Impl. Store
BENNETT — Arnold W. Wiersbitsky
CALMAR — Kaiser Impl. Co.
CARROLL — Tobin Motor Impl. Co.
CEDAR FALLS — Cedar Implement & Parts
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CHARITON — Chrisman Impl. Co.
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CLARINDA — Andrew Farmers Exch.
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JESSELL — Mitchell Bros. Impl.
KALONA — Kalona Impl. Co.
KANAWHA — Poop Mill & Produce
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KEYSTON — Earl Brown Impl.
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LAKE MILLS — Farmers Co-op. Elev.
LAMONI — Williams Service
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PROVIDENCE — Providence Impl. Co.
RAKE — Rake Impl. Co.
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REDFIELD — Redfield Impl. Co.
REINBECK — Reinbeck Impl. Co.
RICEVILLE — Riceville Impl. Co.
RINGSTED — Ringsted Co-operative Grain & Produce Co.
SAC CITY — Sac City Impl. Co.
SAINT ANSGAR — St. Ansgar Impl. Co.
SARATOGA — Saratoga Impl. Co.
SHELL ROCK — Shell Rock Impl. Co.
SHELLSBURG — Shellsburg Impl. Co.
SPILLVILLE — Spillville Impl. Co.
STANWOOD — Stanwood Impl. Co.
STORM LAKE — The Bookers, Inc.
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SIOUX CITY — Sioux City Impl. Co.
TERRIL — Terril Impl. Co.
TIPTON — Tipton Impl. Co.
TITONKA — Titonka Impl. Co.
TRIPOLI — Tripoli Impl. Co.
URBANA — Urbana Feed & Impl. Co.
VINTON — W. S. Dyer Tractor Co.
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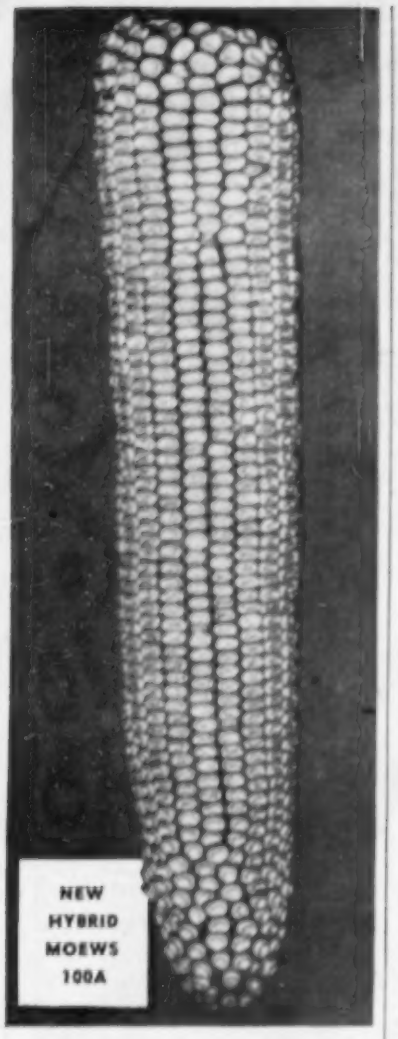

If Price of Corn Goes DOWN . . .

You can still make money on your corn crop by keeping up your yield per acre.

Protect your yield. Plant seed of **resistant** varieties. Leaders in corn breeding, Moews have developed IMPROVED varieties **resistant** to stalk rot, blight, corn borers, drouth, windstorms. Order seed now. Why chance serious loss from weather, insects, disease?

Moews will send you six issues of "Corn News" FREE. It will tell you about the new **resistant** varieties; also other ideas for increasing yields.

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MOEWS
Granville, Illinois

...say "maize" MOEWS Improved CORN BELT Varieties

MOEWS SEED COMPANY
Granville, Illinois

Irrigation machinery at the Iowa State Fair interested Mr. and Mrs. Glenn Patience, Dallas county, Iowa. Their corn crop was cut severely this year by drouth.

Farmers inspect new machines

State Fair visitors show interest in machinery for early harvest of corn

WHAT'S new in farm machinery? What additions to farm equipment attract farmers most? Reactions of farmers at State Fair machinery exhibits gave pretty good answers to those questions.

Crowds gathered around new grain and forage harvesting equipment; the new tractor models; irrigating equipment; and, of course, new labor saving gadgets got attention.

A machine to pick corn and make silage or bedding at the same time brought these questions from farmers:

Will the corn keep? Are chopped stalks moist enough to make silage?

Answers were, of course, that artificial drying of corn would be necessary to make corn keep if stalks were green enough to make silage.

But silage has been made with such a machine at Iowa State College and has given good feeding results. Water might have to be added to the silage, however. But that's often done anyway.

Makers of these machines say that they can be used after corn is dry and the chopped stalks used for either feed or bedding. Or the chopped material will plow under cleanly.

Farmers were also interested in combines that can be made into picker-shellers. This is done on self-propelled types by substitution of a snapper unit for the grain pick-up in front.

These machines deliver shelled corn, of course, and corn must be dried in bins fitted for artificial drying.

Farmers at the Fair were definitely interested in the picker-sheller idea. Desirability of early picking was pointed out. When corn gets thoroly dry, much of it may be on the ground because of corn borer damage, or wind storms.

The idea of using one machine for several purposes also seemed to attract farmers more than usual this year. Using the combine for both small grain harvest and corn harvest was one example.

But farmers also gathered around a power unit which could be used with combine, corn-picker or forage chopper. These various machines are interchangeable on the power unit.

The possibility of economy thru one motor and power unit was appealing. And besides, each unit becomes self-propelled with the advantages that brings.

A dry season has made a lot of farmers think about the possibility of irrigation. You could tell that by the folks who looked at pipe and pumps for irrigation.

There was some skepticism, however, about irrigation in this part of the Corn Belt.

One farmer said he had been told that 10,000 gallons of water was required for the production of one bushel of corn. If so, where would we get the water?

Our creeks and rivers get low in dry seasons, he said. Then it was suggested that dams would have to be made here to hold water as in other irrigated areas.

Farmers see the problem connected with irrigation in the Corn Belt. But they know that it is being done in Nebraska not far west of the Iowa line. Many feel sure it will move east.

New tractor models always draw attention from farmers. This year, farmers noted added power, and somewhat larger tires relative to weight.

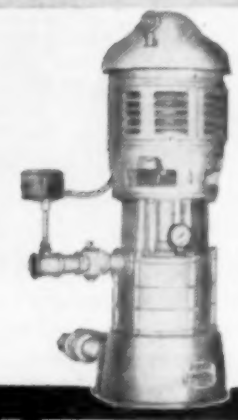
They shouldn't pack the ground quite so much under the wheels, some said. And power delivery should be smoother.

On the whole, the State Fair exhibits seemed to point to these advances:

Somewhat larger machines to fit larger farms; trend toward making one machine do more jobs; and many refinements which save labor and make operation easier.

LOOKING FOR AN ADEQUATE WATER SUPPLY?

Your Dempster Dealer Has the Answer!



DEMPSTER

JETMASTER MULTI-STAGE PUMPS

With capacity to 4000 gals. per hour — depth to 350 ft.

- For farm and industry
- Perfect for irrigation
- Less friction — more power for pumping
- Quality-controlled Dempster construction
- Available in 2 or 3 stages
- Pressure up to 80 lbs. in deep wells; 100 lbs. for shallow wells
- Models for 2", 3", 4", 5" or larger wells
- Greatest economy—highest efficiency

Dempster Deep-Well Jetmaster

For quiet performance, for the most water with the least power cost, for all around performance, you can't beat the Dempster Jetmaster single-stage or multi-stage pumps. You can place the noiseless Jetmaster in your basement, away from frost and weather.

Send for FREE Folder

Dempster Mill Mfg. Co.
617 South 6th Street,
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Please send me free folder and capacities of Dempster Jetmaster single-stage and multi-stage water systems.

Name_____

Address_____

Town_____ State_____

What's in this big refrigerated and air-conditioned truck? Not cut flowers or fresh vegetables, or even fresh beef sides. This truck hauls live hogs from Omaha, Neb., to the west coast. Truck makes the run to west coast in 48 hours.

For hogs, now it's

air conditioning

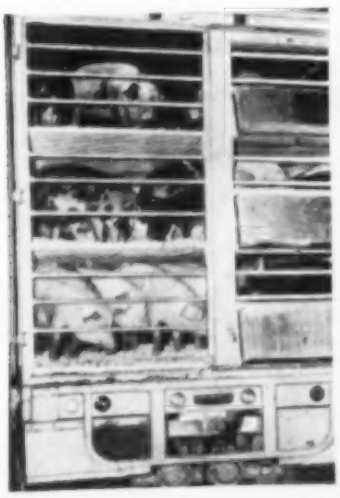
NOTHING'S too good for top quality hogs. Some of them even travel from Omaha, Neb., to the west coast in air conditioned comfort.

An Omaha trucking company, Harry Campbell and Sons, had a special trailer built for them by Freuhauf Trailer Company. Purpose was to give live hogs a fast, comfortable, non-bruising ride to the west coast. Trailer hauls frozen or perishable products on the return trip.

Is it silly to pamper these porkers on the 48-hour trip west? Not so, says a west coast packer. Hogs arrive with no bruise damage and less shrink. He figures he gets one to two percent better yield.

Anyway, the hogs never had it so good.

Loading the top deck of the special air-conditioned triple-deck hog trailer.



Rear door of the trailer shows the three decks of hogs and vents on the right door.

Hogs are also loaded at the side doors of this hog trailer.

His Fall Pigs Were Made Ready for Market in "EXACTLY 5 MONTHS" with GOOCH'S BEST "TEAM OF FEEDS"

"It Takes a Special Feed for Each Period in the Hog Raising Program,"

says GILBERT WEYERS, Burr, Nebraska

"I use Gooch's Best Hog Feeds—not just one or two of them but the complete line. I'm really sold on the idea that it takes a special feed for each period in the hog raising program. My fall pigs that were raised on the Gooch Program all the way, starting with the Brood Sow Supplement, Sugar Coated Pig Booster, Super Pig Supplement and then Super "40", really went to town. One load marketed in exactly 5 months at 228 lbs. The others went at 237 lbs. in 5 months, 10 days."

"A REAL BOOST From Sugar-Coated Pellets," says ROBERT ZIMMERMAN, Walnut, Iowa

"Gooch Sugar-Coated Pig Booster Pellets gave my pigs a real boost. To keep this advantage, I am following up with the full "Team of Feeds" program to grow hogs that are "market-fit" at 200-225 lbs. I raise about 200 hogs each year—have used the Gooch program for the past 8 years."

START YOUR FALL PIGS NOW—on GOOCH'S *Feeder Proved* "TEAM of FEEDS"

5 DAYS TO 5-6 WEEKS Feed GOOCH'S BEST *Sugar-Coated* PIG BOOSTER with GroLac

Gives your fall pigs a fast early start—ahead of cold weather! Pure cane sugar coating gets baby pigs started eating solid foods as early as 5-7 days. Fully effective levels of antibiotics and Gooch's exclusive "growth-boosting" GroLac assure fast steady gains that carry all the way to market.

NOTE: If you plan to follow the Early Weaning Program, use GOOCH'S BEST Pig Pre-Starter. Pigs can be safely removed from the sow at 1 to 3 weeks of age with this important new dry "sow-replacer" feed. Ask your Gooch dealer for details.

THEN—FOLLOW UP with:

★ **GOOCH'S BEST Super Pig Supplement with GroLac.** For Weanling Pigs, 6 Weeks to 75 Lbs.

★ **GOOCH'S BEST Super "40" Supplement.** For Growing-Finishing Hogs, 75 Lbs. to Market.

See Your Gooch Dealer Now for Full Information on GOOCH'S BEST Feeder-Proved "TEAM OF FEEDS"

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GOOCH RED CIRCLES ARE VALUABLE
Collect and trade them for valuable merchandise.

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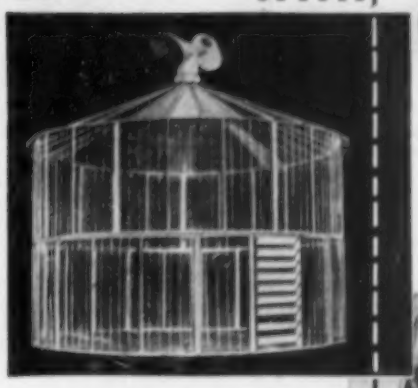
Save TIME & LABOR WITH

THE SIOUX STEEL CO. MANUFACTURERS OF -SIOUX- STEEL PRODUCTS SIOUX FALLS, S. D.

SINCE 1918



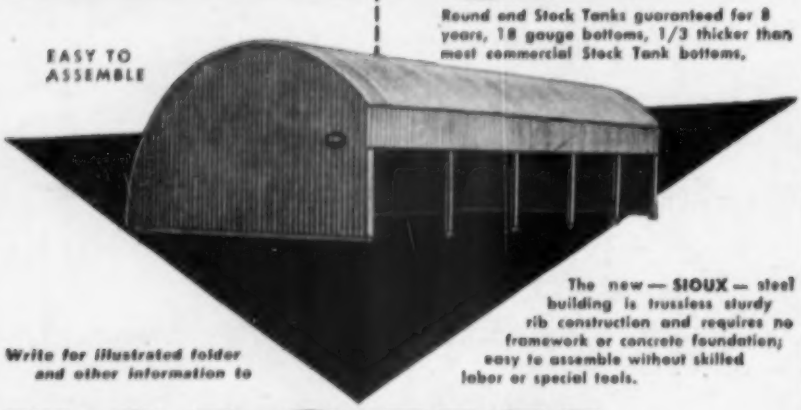
THE — SIOUX — The Most Wanted Corn Crib in America. With the — SIOUX — Air-Dri Corn Crib you can pick your corn two to four weeks earlier. No need to gamble on field drying. — SIOUX — Corn Cribs have a rigid frame and heavy #5 wire, about as thick as the tines of a pitchfork, forming the sides.

The Giant Hog Feeder, like its companion, the Feed-Around, is of all steel construction, with 14 gauge extra large, extra sturdy lids, which protect feed from the elements and rodents. Large animals cannot put entire weight on the lids. Pigs cannot lie in feeding trough.

The — SIOUX — Steel Grain Bin, the finest money can buy, has many excellent features, including 6 ply 1½" ribs every 22½" of height, has vertical corrugated walls, is easier to assemble, stronger, with fewer bolts, because of 6-ply ribs, is bird proof, rodent proof, fireproof and sweat proof when filled; two doors assure tight closing.

Round end Stock Tanks guaranteed for 8 years, 18 gauge bottoms, 1/3 thicker than most commercial Stock Tank bottoms.

EASY TO ASSEMBLE



The new — SIOUX — steel building is trussless sturdy rib construction and requires no framework or concrete foundation; easy to assemble without skilled labor or special tools.

Write for illustrated folder and other information to

THE -SIOUX- STEEL CO.

FIRST AVENUE, SIOUX FALLS, SOUTH DAKOTA

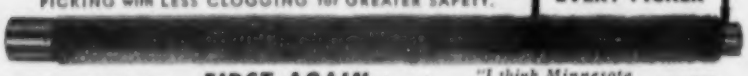
NOW IS THE TIME TO CHANGE TO

MINNESOTA HUSKING ROLLERS

and get championship performance from that old or new picker of yours. Thousands of farmers each year are switching to these efficient, low priced, easily-installed rollers.

Minnesota patented rubber and cord rollers mean CLEANER PICKING with LESS CLOGGING for GREATER SAFETY.

WE HAVE ROLLERS FOR EVERY PICKER



PAT. NOS. 2,615,131 2,615,132 & 2,615,133

1953 1954

FIRST AGAIN For the second straight year the National Corn Picking Contest was won by a machine equipped with Minnesota Husking and Snapping Rollers.

"I think Minnesota Snapping and Husking Rollers are a wonderful asset to any picker," says champion Elmo Redding of Flora, Indiana.

See your local dealer or write direct for free information. Dept. 946

GRAM & WESTERGAARD, Inc. 4014 N. ROCKWELL STREET CHICAGO 18, ILLINOIS

When writing to our advertisers, please mention that you read their advertisements in Wallaces' Farmer and Iowa Homestead

Family cow used to be on every farm. But now many farm people, like Mrs. Foy of Cass county, Iowa, buy from milkman or store.

Milk on doorstep

HOW many farmers buy milk? The Wallace-Homestead Poll asked this question recently and found 24 percent of Iowa farmers were buying milk instead of keeping a cow.

Dairymen, of course, supply their own milk, but specialists in beef and hogs are now more inclined to let somebody else do the milking. Older farmers are more apt than young ones to hold on to the family cow.

No bought milk on this farm. Myron Schultz, Jr., of Des Moines county.

Majority still agree with Harley Schmoker of Webster county, that farmers had better milk a cow or two.

There's no fuel like Skelgas

You run your own private utility when you choose bulk Skelgas. From one central Skelgas tank you can cook, heat your home, heat water, fuel your tractor, operate a brooder. Even when storms are howling and lines are down—you will live in modern comfort, thanks to Skelgas!

Cook, heat, fuel your tractor . . . from one Skelgas bulk tank located in your own yard.

World's Finest Fuel and Appliances

STOP WEED AND GRASS SHORTS ON YOUR ELECTRIC FENCE LINE!

Get Bull-Tight Fencing with One Wire

SIMPLIFIES PASTURE ROTATION

SHOCK-RITE MODEL 80 ELECTRIC FENCER ONLY **$27.50**

Controls all stock in any weather or soil conditions for 10¢ per month. Two signal lights tell at a glance condition of fence and unit. Exclusive "Saf-tee" chopper clips weeds on contact. Ask your dealer for a free demonstration. Five models to choose from, $12.95 up.

5-Year Guarantee All Models

Write for free SHOCK-RITE FENCER folder

SHOCK-RITE ELECTRIC FENCER, INC.
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don't BURN them . . . BURY them

Use the famous

CONTINENTAL SHREDDER

The 72 swinging hammers pulverize corn stalks and weeds into fertilizer, and any tractor will handle this lower cost Shredder. Consult your better implement dealers. Comparisons welcomed. Write for descriptive catalogue.

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BIG MONEY-SAVER!

BROWER *Whirlwind* FEED MIXERS

Mix your own cattle, hog and poultry feeds and save up to $6¢ per 100 lbs. Fast mixing, low cost operation, perfect blends. 5 sizes, 700 to 4000 lbs. per batch. 30 day trial. Write for Catalog.

Brower Mfg. Co., Box 8303, Quincy, Ill. EASY TERMS

SAVE YOUR LIFE!

How many times have you read or heard a message that told you: "Slow down and save a life"? Frank Schmidt slowed down as he drove along a country road and thereby saved his own life. Reported by Norval J. Wardle, Iowa State College safety specialist.

IT WAS a beautiful day in the country as Frank Schmidt drove off the highway toward the Johnson farm two miles away.

This year had been a good year for corn. There had been a few dry spells. The corn had been hurt some, but he secretly thought his own crop wasn't hurt too much. Oh, he had griped about it like everyone did. He remembered telling Pete Jones that this year was one of his poorest crops.

Thus he mused as he sped along the country road. He hoped he would get to the Johnson farm before the auction sale started. That made him glance at the speedometer.

"My, I'm doing 50 on a country road. Oh, well, it's a good road and there are no cars coming."

However, just then, Frank noticed that he was coming to a crossroads.

"That corn is so high I couldn't see a car coming. Of course there isn't one. Oh, well, I'll just slow down pretending there is one."

As Frank slowed his car and came to the crossroad, another car whizzed across in front of him.

"Why the crazy fool. He must be going at least 50," Frank exclaimed.

Then with a sickening feeling, Frank remembered the speed he had been traveling. In his mind he saw the mess of which he would have been a part if he hadn't slowed down.

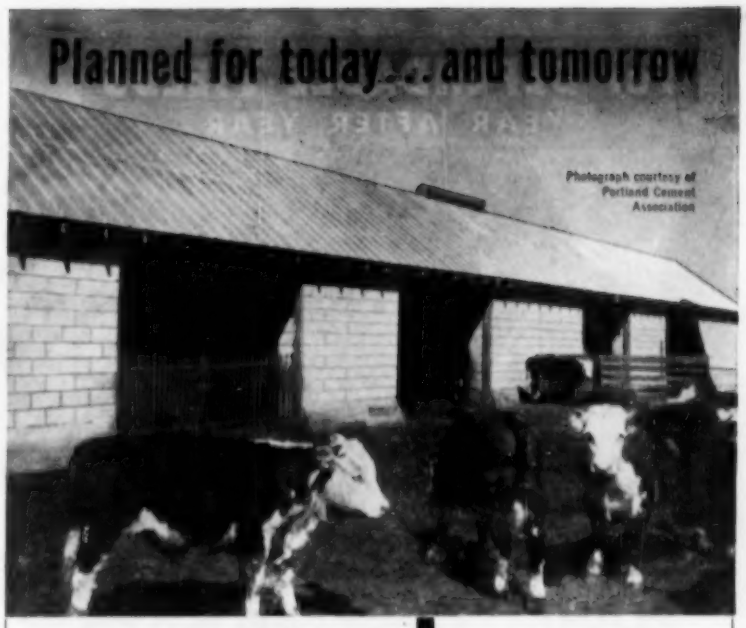
There was no accident, but all the "makings" were there.

A country crossroads—high corn growing on the corners—two speeding cars.

How can such accidents be prevented? Frank used one method. He slowed down on the country road.

Another way to prevent such accidents is to cut down the corn and other plants on country crossroad corners so approaching cars can be seen.

"Oh, we had a wonderful vacation trip! How was yours?"



. . . WITH CONCRETE

Designed with an eye to the future, this concrete structure can be used in many ways. Today it houses 100 head of beef cattle. Tomorrow, the farmer, or his children, can use it as a machine shed, a bedded area for dairy cattle, a work shop, or a storage building.

Like all concrete and concrete block farm buildings, this one is cool and comfortable in summer, warm and dry in winter. It is easy to clean, will not rot, rust or burn, and will last a lifetime with little maintenance.

See your Lehigh Dealer next time you're in town. He will be glad to give you details on how concrete can help you improve both farm and farming.

LEHIGH
PORTLAND CEMENT CO.
Allentown, Pa.

Three men and a boy can build a structure (124' x 30') like this with these materials:

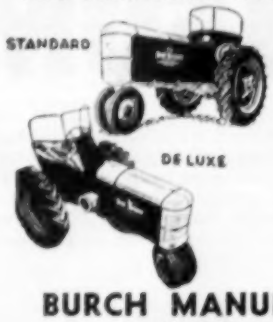
FOR FOUNDATIONS AND FLOOR
107 cu. yds. ready mix concrete
or
640 sacks Lehigh Cement
57 cu. yds. sand
83 cu. yds. gravel

FOR WALLS
24 sacks Lehigh Mortar Cement
3 cu. yds. mortar sand
2,775 8 x 8 x 16 regular concrete blocks
49 8 x 8 x 16 double corner concrete blocks
241 8 x 8 x 16 corner concrete blocks
77 8 x 8 x 8 corner concrete blocks

BE SURE YOU ASK FOR AND GET THE *Genuine* Heat-Houser

Cold weather is just around the corner! Be prepared . . . keep warm while you work with the Genuine Heat-Houser. One piece, heavy duty canvas with built in tool pouch, tinted windshield, two models with prices as low as $29.95.

YOU JUST CAN'T BEAT THAT OVERALL PROTECTION!



The Genuine Heat-Houser, number one tractor heater is designed for simple installation on most tractors . . . no holes to drill, controlled heat, 2 models . . . the Heat-Houser standard priced as low as $29.95 and Heat-Houser with VU . . . the cover with vision unlimited . . . see your dealer now or write for complete details to

BURCH MANUFACTURING COMPANY
Fort Dodge — Des Moines

●Let the advertisements in Wallaces' Farmer and Iowa Homestead form your buying directory. If the articles you wish to purchase are not advertised in this paper, we will be glad to give you the names of reliable firms from which you can make your purchases.

For DEPENDABLE YIELDS
YEAR AFTER YEAR

PLANT

MAYGOLD

HYBRIDS

Take the gamble out of corn growing. Maygold's superior varieties come through year after year with the best possible yields for your soil and weather conditions.

Only MAYGOLD offers you

- **DERMATIZED PROTECTION** assures better stands
- **BLOODLINE BREEDING** guarantees crib busting yields
- **RIGID TESTING** proved performance in your area
- **PRECISION GRADING** insures uniform planting

ORDER your MAYGOLD now from your nearest Earl May Store, or see your neighborhood Maygold representative.

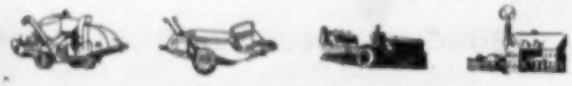
Earl May SEED COMPANY

Matches Colors of Original Equipment Manufacturers

STOP RUST! with RUST-OLEUM®

Not a grease, not an oil! Brush or spray directly over sound rusted surfaces after scraping and wirebrushing. Ready-mixed, dries free of brushmarks to a tough, elastic coating that resists weathering, fumes, heat, sun, salt air, etc.

Rust-Oleum stops rust indoors and out on your stanchions, fences, bull pens, metal roofs, gutters, buildings, etc. Saves even badly rusted metal. Many colors, including aluminum, and white. Nonpoisonous—contains no lead. Write for the facts, today.



Ask Your Farm Implement Dealer for Rust-Oleum . . .
If he cannot supply you, ask him to write us for his nearest source of supply!

FREE: Send your name and address for RUST-OLEUM Color Chart and complete information.

RUST-OLEUM CORPORATION 2650 Oakton St. Evanston, Illinois

I Outside stuff

IF YOU have even half a corn crop, you have something to be thankful for. Some folks don't have that.

For example, there's Frank Penniman of Sac county, Iowa. His 130 acres of corn burned up in July. On light soil underlaid by gravel, the corn couldn't stand the heat and drouth. Some of it won't make 10 bushels per acre.

With eight youngsters to feed and clothe, Penniman couldn't stand around and mourn his lost crop. So last month he headed for a nearby town and got a job in a tile factory.

• • •

RETAIL price of milk in Des Moines was boosted one cent per quart the first of September. Farmers are getting more for their milk, we were told, due to a milk shortage resulting from hot weather and dry pastures. So consumers pay the increase.

That's okay. Milk's still one of the best buys in our family budget.

I assume, tho, that the retail price should drop next spring if lush pastures boost the milk supply and the price to farmers sag. Will it? I'll be watching.

• • •

MEDICAL science gets some amazing results. Over in Macon county, Illinois, I found Jim Beckett worrying about a sow that had no milk for her litter of day-old pigs. The sow had become overheated during farrowing. And the squealing pigs were tugging away at milkless teats.

Then the veterinarian arrived. He shot a hormone into the sow's ear vein. And within two or three minutes, the pigs were nursing contentedly. And before the vet left, the pigs were settling down for a nap—with full tummies.

• • •

DRY weather upsets a lot of farming rules. A northwestern Iowa farmer tells me that his corn on spring plowing did better this year than his corn on fall plowing. That's just the reverse of the usual story from that part of the state.

—Dave Bryant.

"A blister! Where'd he get it—off a rough pool cue?"

DRY CROPS
Out In The Field!
by Ben L. Tomlinson

USE YOUR TRACTOR to pull and power this big-capacity Cropgard—the only all-portable farm dryer. Since no electricity is needed, you can safely dry corn, small grains—yes, even hay, right out in the field. Automatic temperature and safety controls also operate off the tractor battery.

CROPGARD FARM DRYER Patent Pending

IMMEDIATE DELIVERY—on the job the day it's delivered, it's the best money-maker for custom drying. In one hour, you can dry 100-150 bu. shelled corn, soybeans or small grains. Costs less than 2c a bushel!

TWIN OIL BURNERS give a wide range of drying temperatures. A powerful fan forces a continuous blast through the 170 bu. capacity perforated floor.

PUT THE CROPGARD to work on your farm, budget-priced at $1985 FOB factory, with running gear, hydraulic hoist and hay sides available as extras. If your implement dealer doesn't handle it, write to me for ***free, illustrated bulletin*** at Lakeshore Manufacturing Co., 3305 Republic Ave., Minneapolis 16, Minn.

LOW-COST SOLUTION TO WATER PROBLEMS

McDonald's New fig. 4030, 1/3 HP Adapto-Jet Pump

Is the pressure in your present water system too low? Are you faced with expensive adjustments and repairs? McDonald's new Adapto-Jet Pumps solve these problems at the lowest cost on record. *The new series 4000 pumps are quickly converted from shallow to deep well with no extra parts to buy — just one simple adjustment and your water level dropping worries are over!* Choose a ⅓ or ½ HP model — both pumps sturdily built to provide dependable running water. Capacities up to 800 GPH. *Costs (including a 6-gal. tank) as low as* **$99.50**

Drop a postcard to McDonald for descriptive booklet or just call your nearest McDonald Dealer.

A. Y. McDONALD MFG. CO.
DUBUQUE, IOWA
Pumps • Brass Goods • Oil Equipment

PEERLESS "All-Purpose" Farm ROLLER MILLS

CRIMP—CRACK—GRANULATE All small grains and ear corn

Feed DUST-FREE rolled grain for better feeding results. Roll it with a PEERLESS. Complete line stationary and portable mills. Write for LITERATURE.

PEERLESS EQUIP. CO. Dept. 104 Joplin, Missouri

Save On Tractor Parts!
Buy direct from nation's largest combination stock of new and used parts. FREE 1955 catalog.
CENTRAL TRACTOR PARTS CO.
DES MOINES, IOWA, or HASTINGS, NEBR.

Buy U. S. Savings Bonds TODAY!

One experience with a tractor on fire was enough for Roy L. Beckett, Boone county, Iowa. Now he carries three fire extinguishers on his corn picker—one within reach of the tractor seat, two in the tool box.

Be your own fire inspector

Here's a check list on fire safety

FIRE is one of the big hazards of farming. You read about it every day—a house, a barn, a machine shed up in smoke; often years of working and saving right along with it.

Tragic thing is that almost all fires are caused by carelessness. Some little oversight—and POOF! So be your own fire inspector; get into the habit of checking all possible danger spots.

As a starter, run over the check list here. Give an honest answer to each question. Then investigate the "no's" and make them "yes's" tomorrow.

Have you removed all combustible rubbish, paper bags and oil rags? **Yes** ☐ **No** ☐

Are your electrical appliances listed by the Underwriters' Laboratories? **Yes** ☐ **No** ☐

Do you have enough electrical outlets or good extension cords? **Yes** ☐ **No** ☐

Have you a special circuit for large electric motors used in the barn? **Yes** ☐ **No** ☐

Do you use only the proper size fuses in the fuse boxes? **Yes** ☐ **No** ☐

Do you place oily rags in a metal container in your workshop? **Yes** ☐ **No** ☐

If you use small quantities of gasoline in the workshop, do you keep it in a can painted red and marked "gasoline"? **Yes** ☐ **No** ☐

Have you put glass covers over the light bulbs in the barn to reduce the chance of a dust explosion? **Yes** ☐ **No** ☐

Are all of the portable electric tools you use, including clippers and drills, grounded? **Yes** ☐ **No** ☐

Do you prohibit smoking in the barn? **Yes** ☐ **No** ☐

Do you keep fire extinguishers in places where you can get to them quickly in case of a fire? **Yes** ☐ **No** ☐

Have your fire extinguishers been checked recently to make sure they are filled and in working order? **Yes** ☐ **No** ☐

Have you made provisions to make sure you'll have power to pump water in case of a fire? **Yes** ☐ **No** ☐

Can the electricity be cut off from separate buildings from a central point? **Yes** ☐ **No** ☐

Have you instructed the other members of the family what to do if a fire breaks out? **Yes** ☐ **No** ☐

Can you and the rest of the family place a call to the fire department quickly and just as quickly give the exact location of your farm? **Yes** ☐ **No** ☐

Do you keep matches out of reach of children? **Yes** ☐ **No** ☐

FOUND!

a feeding program that assures higher egg production at lowest possible cost

HUBBARD'S SUNSHINE laying mash program

Which program is best for you?

ALL-MASH FEEDING

200 lbs. Hubbard's Sunshine 37% Egg Concentrate
500 lbs. Ground Corn
300 lbs. Ground Oats
1000 lbs. Total (15½% Protein Mash)

HALF MASH AND HALF GRAIN FEEDING

200 lbs. Hubbards Sunshine 37% Egg Concentrate
200 lbs. Ground Corn
200 lbs. Ground Oats
600 lbs. Total (19½% Protein Mash)

FREE! Write TODAY for HUBBARD'S SUNSHINE POULTRY MANUAL. It's your guide to greater egg producing profits.

HUBBARD MILLING COMPANY
MANKATO, MINNESOTA • MARION, INDIANA
ESTABLISHED 1879

NOW! 2 EXCLUSIVE REASONS WHY COMFORT® HEATERS are BETTER THAN EVER!

1 COMFORT Heaters, priced as low as $29.95, are custom fit to each tractor make and model. No sag, no bag, no gap! And NO plastic-to-canvas seams to rip. Motor panel is replaceable—tension springs hold the rest of the cover taut and neat.

2 AMAZING! NEW! Exclusive Tinted* "SLIDE-DOWN" WINDSHIELD

Windshield slides forward and down. Saves time! No need to climb off tractor to fold or adjust windshield. Just slide it down! *Tinted like finest cars to reduce glare.

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TOP PERFORMANCE PLUS . . . TWO FEATURES ONLY DE LAVAL BULK COOLERS CAN GIVE YOU!

De Laval Speedway Bulk Cooler for remote condensing units—available with or without condensing units — in 300, 400, 500, 600, 800, and 1,000 gallon sizes for every-day or every-other-day pickup.

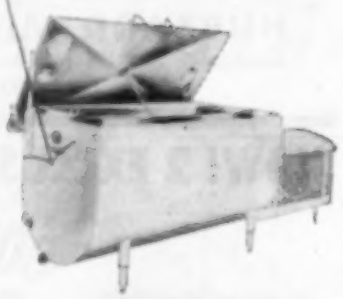
Of course De Laval Bulk Coolers have every feature that insures complete milk protection, money-saving efficiency and simple, time-saving operation.

Even more important are two vital De Laval features that no other bulk cooler can offer!

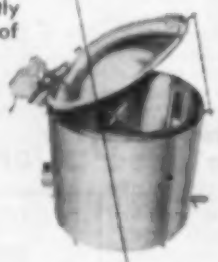
1. DE LAVAL DEPENDABILITY! . . . built into every De Laval cooler to give you positive, day-in day-out performance. If it's a De Laval, you know you can depend on it because De Laval—the greatest name in dairying—has always stood for dependability!

2. DE LAVAL NATION-WIDE SERVICE! . . . which you probably will never need . . . but if you do, there's a De Laval Dealer nearby to give you service—quickly and efficiently.

Get all the facts on De Laval Bulk Milk Coolers . . . now! There's a size and style to fit your needs exactly . . . and to give you a lifetime of TOP PERFORMANCE *PLUS!*



De Laval Self-Contained Speedway Bulk Cooler. Fully automatic operation. 150 and 200 gallon sizes for every-day or every-other-day pickup; 250 gallon size for E.O.D. (or four milkings) pickup only.



De Laval Speedway Vacuum Bulk Cooler. 200 gallon capacity for every-day or every-other-day pickup. A De Laval Combine Milker and a De Laval Vacuum Bulk Cooler give you a completely sealed milking system — help cut labor costs. Available with or without condensing unit.

THE DE LAVAL SEPARATOR CO., Dept. W-43
Poughkeepsie, N. Y.

Without obligation send me illustrated literature and specifications on all 3 types of De Laval Bulk Coolers.

Name _____
Town _____
RFD _____ State _____
I milk _____ cows. I use _____ milker.

DE LAVAL

SERVING THE DAIRY INDUSTRY SINCE 1878

THE DE LAVAL SEPARATOR COMPANY Poughkeepsie, New York • 427 Randolph St., Chicago 6
DE LAVAL PACIFIC CO. 201 E. Millbrae Ave., Millbrae, Calif.

Looking around at the Fair

Visitors found ideas and equipment for use inside and outside the home

HOT days at the fair stimulated interest in all kinds of air conditioners. Simplest kind is the window type that runs on the same principle as your refrigerator. They require no water and are easy to install. Some of these window type are claimed to be capable of air-conditioning a five room house.

▼ ▼ ▼

MORE EXTENSIVE AIR conditioners can be attached to a furnace using the same ducts to transport the cool air. Some of these conditioners require a large amount of water. In areas where water is limited, a cooling tower is used to replace the water. The cooling tower is more expensive to install but less expensive to operate.

▼ ▼ ▼

IF YOU ARE planning a new house, you have a number of choices. You may want to build it yourself, or you can turn the whole thing over to a contractor. You can purchase a prefabricated unit that can be moved in and erected in a very short time.

A pre-cut house is one where the structure is cut and erected in 10 days on the prepared (by you) basement. You can either do the finishing up process or turn it over to a contractor.

▼ ▼ ▼

MANY TYPES of modern equipment come in a variety of colors. Take stoves, for instance —there are models available in attractive colors such as pink, yellow, green and blue.

▼ ▼ ▼

CHEST-SHAPED WATER heaters can be installed in any kitchen. Flat table-like top can be used for a work table.

ONE MAKE OF CAR features an arrangement whereby it can be made into a comfortable double bed for vacation or camping trips or perhaps, when you have too many guests. Who sleeps with his feet under the wheel is a family matter. Makes up somewhat like a pullman bed.

▼ ▼ ▼

FOLDING DOORS that save space in small houses and solve problems in bigger houses come in a variety of colors and shades. These are said to be easily installed.

▼ ▼ ▼

LIGHT BULBS come in many different shades—pink for bedrooms, green for livingrooms, etc. Attractive for decoration and for color schemes.

▼ ▼ ▼

DOES ANYONE use a hand-pushed lawn mower any more? Interest seemed to be centered around power mowers, especially the rotary type. These mowers can be equipped with mulchers and grass catchers.

▼ ▼ ▼

WATER SOFTENERS make living easier, according to one manufacturer of softeners. It assures clean utensils in the kitchen, clean milking machine equipment, saves wear and tear on clothing, requires less scrubbing. It even softens the beard for the man of the house, they claim, making shaving easier.

▼ ▼ ▼

PORTABLE GAS heaters can be used for heating porches and prolonging the warm weather season. Can be used for late fall outdoor meals and other uses. Claimed to be economical to operate and easy to transport.

Watch is being tested for radiation at Iowa State Fair. Ira Crane, Crawford county, Iowa, is at left; Lee F. Blodgett, University of Iowa electronics technician, runs machine. A watch with luminous dial should not be worn with face toward wrist, advises Blodgett. But with face up, the watch case protects the wearer's wrist from radiation.

Use corn for grain or silage? Depends on your own farm situation. Shown is silo filling on Merlin Kluesner farm, Dubuque county, Iowa.

Make best use of corn

Here are ways of figuring to see if grain or silage makes the best use of your corn

YOUR pencil can tell you whether to use corn for grain or silage.

Here's a sample of how you might figure things:

One approach is from cost of production. Farm management figures show costs of about $40 to produce an acre of corn for grain.

Assume a yield of about 65 bushels per acre—or perhaps 10 tons of silage.

That amount of ear corn at 73 percent total digestible nutrients (TDN) gives 3,330 pounds of TDN per acre. So cost is about $1.20 per 100 pounds of TDN.

Ten tons of silage at 20 percent TDN gives 4,000 pounds of TDN. But you have to add at least eight dollars in extra harvesting costs. So cost still figures about $1.20 per 100 pounds of TDN.

You do get more TDN per acre. And this can be an advantage if you can use all the roughage produced.

But there are other things to consider, too. On many farms, TDN in silage can not substitute for TDN in grain. Silage is not suited for extensive use with hogs or chickens.

Here's another angle that makes corn silage less attractive to many farmers. Grass silage is an effective substitute.

Best deal is to make maximum use of grass thru good management, fertilizer and improved varieties. Then maybe you'll be able to supply both hay and silage needs from the same grass acreage.

In that case, make only enough corn silage to fill out roughage needs. Then more corn acres can be harvested for grain.

Now, let's take a look at oats as a substitute silage crop.

About 18—maybe fewer—acres of oats should fill a 100 ton silo. Suppose the oat yield would have been 60 bushels per acre. At 65 cents a bushel the oats would be worth about $702.

You'd need 10 acres of the 65 bushel corn crop to fill the same silo. That's 650 bushels of corn. At $1.30 a bushel, it is worth $845.

Oat silage is a little short of corn silage in feeding value. But you have $143 to make up the difference and still leave a profit.

Corn as a grain feed may give more return than corn silage, too.

University of Minnesota farm management experts did some figuring. They used 59 bushels of corn or eight and three-tenths tons of silage as the feed you might expect from one acre.

Corn fed to hogs at just over $16 a hundred returned $3.56 per 100 pounds of TDN. That's an acre return of about $94.

Corn as silage fed to dairy cows producing 400 pounds of butterfat returned about $2.37 per 100 pounds of TDN. Or about $78 per acre. That's in spite of extra TDN supplied by silage.

Corn sold as grain at $1.30 a bushel would return $76.70 in the same case.

Here are some conclusions reached by the Minnesota scientists:

- There's no simple answer that fits every case. Still depends on the individual farm.
- Use of corn land for silage is not justified on many farms under present conditions. But silage can produce more TDN on same acres if you need extra roughage.
- Corn as cash grain may give greater return than corn silage fed to dairy cows.
- Corn fed to hogs usually gives the highest return of all.
- Use of more grass silage to substitute for corn silage pays if no change in rotation is required.
- Oats silage is a good substitute for corn silage at present price levels.

ONLY ONE PIPELINE MILKER GIVES YOU THESE VITAL FEATURES!.. THE DE LAVAL COMBINE

- **INSURES *UNIFORM* MILKING!...** Only the De Laval Combine gives you this essential uniformity, because only De Laval has Magnetic Pulsation Control ... factory set at the ideal milking rate of 48 pulsations per minute.
- **INSURES *GENTLE* MILKING!...** No heavy tugging and jerking weight on the delicate udder ... no teat stretch with the De Laval Claw and "Full-Flo" Teat Cups ... greatest milking hand ever!
- **INSURES *PERFECTED* MILKING!...** De Laval made the first pipeline milker—and the De Laval Combine has been perfected by more than a quarter-century's experience.
- **INSURES *SIMPLE "IN-PLACE"* WASHING!...** De Laval's "In-place" Washing System does a thorough job of sanitizing ... cuts wash-up time and labor to a minimum! No tricky gadgets to get out of order.

Before you invest in any pipeline milker get all the facts. See your nearby De Laval Dealer—or mail the coupon today.

DE LAVAL COMBINES FIRST SINCE 1928

THE DE LAVAL SEPARATOR CO., DEPT. W-43
Poughkeepsie, N. Y.

Without obligation, send me proof that a De Laval Combine Milker can cut my production costs, increase my milk profits.

I prefer ☐ Separate milking room ☐ Dairy barn installation
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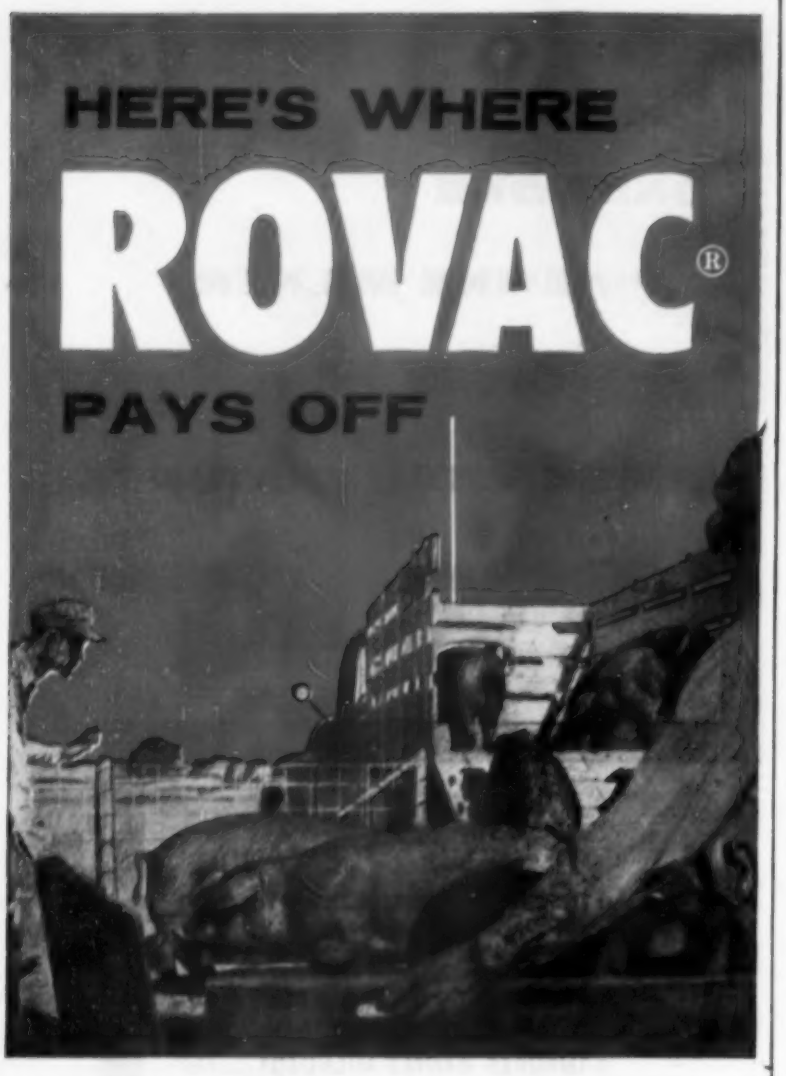

Don't let Hog Cholera steal your profits

The more prime hogs you send to market at lowest cost, the greater your profits will be. One big profit menace is hog cholera—but it need not be if you depend on ROVAC HOG CHOLERA VACCINE.* ROVAC gives at least two years of solid immunity against hog cholera. With it you can vaccinate in less time, with less labor, at less cost. ROVAC cannot *cause* hog cholera. Before it leaves the laboratory, each lot of vaccine is tested for *safety* and *potency*. The vaccination of millions of pigs under everyday farm conditions is powerful evidence of the effectiveness of ROVAC—plus the fact that thousands of hog raisers use and depend on it. Available from your usual supplier.

*HOG CHOLERA VACCINE (Modified Live Virus) Rabbit Origin — Vacuum Dried ROVAC® U. S. Pat. No. 2,510,978.

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Single injection in healthy pigs gives at least a 2-year immunity.
ROVAC cannot cause hog cholera
ROVAC can be used with serum if immediate immunity is required against hog cholera.
ROVAC saves time, money and labor

"Protect your Pigs... and you Protect your Profits!"

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LEDERLE LABORATORIES DIVISION
AMERICAN Cyanamid COMPANY
PEARL RIVER NEW YORK

Photos show difference in resistance of two corn inbreds to corn borer activity. Both plants were innoculated wth borer eggs to insure infestation. Top plant shows heavy damage. But the resistant plant (below) shows practically no damage.

Corn that's tougher than borers

CORN varieties that will withstand borer attacks are on the way. As evidence, take a look at photos on this page. They were made in research plots of a commercial hybrid corn producer.

Workers at the Ankeny Corn Borer Research Laboratory have found that:

Resistance, which prevents the corn borer larvae from feeding, is necessary against first brood borers, and . . .

Tolerance to ear-shank and stalk tunneling is necessary to save the crop from second brood borers.

USDA and commercial researchers are trying to develop a hybrid that carries both features.

After tasseling, the susceptible plant (left) showed heavy damage. It's at least a foot shorter than the resistant plant at right. Ear formation was poor. And stalks were starting to break.

Ezra Benson Says:

"Farmers . . . as a whole have been moving forward steadily on the economic front almost without interruption."

Secretary Ezra Benson, in a speech at Bloomington, Ill., told farmers how well off they were. We quote from his remarks here. At the bottom of the page is our own editorial comment.

THE individual farmer determines whether he has had a good year or a bad one by what he has left in his pocket after the crops and livestock are marketed and his production expenses and fixed costs have been paid.

By this test—the measure of net per capita income—farmers as a whole have been moving forward steadily on the economic front almost without interruption. Even in 1954, with some farm prices declining, per capita income of farmers increased over the preceding year, while per capita income of non-farm people moved the other way.

Nevertheless, per capita income of farmers last year was only one-half that of non-farm people. Of itself, this is a rather frightening statistic. It affects 22 million people living on the 5.5 million units classified as farms in the United States.

Yet two million of these 5.5 million farms produce 85 percent of the food and fiber that goes to market each year. Many of the other 3.5 million units are so small and produce so little that the farmers who operate them are in constant difficulty. . . .

It is the very low incomes of the part-time and non-commercial farmers, lumped into agricultural income statistics, that distort the true picture. The real truth is that incomes of commercial farmers—farmers who operate family-size units such as predominate in this area—compare favorably with those of urban people with similar abilities and capital.

Now let's look at another column of the farm balance sheet. What do farmers themselves—the people in the best position to know—think about the current economic situation and the future of agriculture?

Well, for one thing, rising farm real estate values attest to the reluctance of farmers to sell land, their willingness to buy it. In some areas, farm land is bringing the highest prices in history. . . .

The transition from a war economy to one more closely geared to normal markets and conditions is never easy for agriculture. Yet we are making the changeover this time with less serious dislocations than ever before in our history as a nation. And I am certain that farmers infinitely prefer such adustments . . . to the alternative of continuing bloodshed. . . .

By selling more, even at somewhat lower prices, most farmers in 1955 will probably maintain gross income near the level of last year. At the same time, production expenses are running slightly below a year ago.

All of this emphasizes again that it is not price alone that determines farm income. It is price times volume, minus production costs, that determine farm income. And it is net income that really counts.

We say "Benson's wrong again."

SECRETARY Benson says: "By this test—the measure of net per capita income—farmers as a whole have been moving forward steadily on the economic front almost without interruption."

We ask each reader: "Does that fit your case."

And we quote the economists of the USDA who say (in the April, 1955, Farm Income Situation):

"Compared with the post-Korea high in 1951, farmers' total realized net income was down 18 percent, but with three percent fewer farms, realized net income per farm was down 15 percent."

As the feed grain surplus gets turned into a livestock surplus, net farm income is going down. To raise it Wallaces' Farmer and Iowa Homestead continues to urge bigger selling campaigns, better marketing methods, food stamp programs, expanded school lunches and livestock supports thru production payments.

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protect tractors, trucks, cars...with

"PRESTONE"
BRAND ANTI-FREEZE!

IMPORTANT!

Leading tractor manufacturers specify use of all-winter type anti-freeze—warn against alcohol anti-freeze. The operating temperature of your tractor engine is too high for boil-away alcohol solutions. "Prestone" anti-freeze is America's No. 1 all-winter brand!

Get complete, all-around protection! Get "Prestone" brand — America's number one anti-freeze!

No freeze-ups. No boil-away. No rust or corrosion. Keep your equipment in good running order from now right through to Spring! Insist on "Prestone" anti-freeze, ask for it by name —and make sure you get it!

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LIST PRICE $3.25 per gallon . . . 85¢ per quart

The terms "Prestone" and "Eveready" are registered trade-marks of Union Carbide and Carbon Corporation
NATIONAL CARBON COMPANY - A Division of Union Carbide and Carbon Corporation - 30 East 42nd Street, New York 17, N. Y.

"Dependable, year after year"

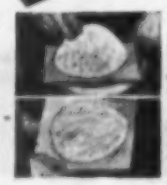
So writes William Viers, Farm Manager, Pleasant View Farm, Lowell, Indiana, referring to his Champion Brown Swiss, Lady's Gypsy Girl F., 86633, and Champion Rapid-Flo Fibre Bonded Filter Disks.

Gypsy is now the highest lifetime producer of her breed. Day after day Rapid-Flo Filter Disks are used by more milk producers than any other brand. So both qualify as outstanding champions in performance.

Reliability and safe filtration are engineered into Rapid-Flo Fibre Bonded Filter Disks. You'll find it pays off in better quality milk and cream to use Rapid-Flo Fibre Bonded Filter Disks and the Rapid-Flo Check-Up.* Insist on Champion Rapid-Flo Fibre Bonded Filter Disks in the Blue Box.

*Improve milk quality—cut costs with the RAPID-FLO check-up for mastitis and sediment

A simple daily procedure endorsed by sanitarians and health authorities that can help prevent loss of milk and cows.



1. After filtering each can of milk (10 gallons or less) the used filter disk is carefully removed from the strainer and placed on a cardboard to dry.

2. Examination of the used filter will indicate precautionary steps necessary to secure clean milk.

Filter Products Division
Johnson & Johnson
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"This machine is ideal for field leveling, grading yards, and constructing firebreaks. It is also an excellent tool for keeping fence rows clean, and backfilling after tiling a field.

"I am in the contracting and road building business, and I do custom work for neighbors, so my blade is constantly in use. In spite of the amount of work I have done with the blade, it is still in first class condition. It has not cost me anything for repairs, not even for cutting edges.

"The Danuser Blade will pay for itself many times over in a short period of years. I feel that it is the most valuable piece of equipment that a farmer or rancher could possibly own." Walter W. Meyer

LIKE MR. MEYER, YOU CAN "MAKE THE GRADE WITH THE DANUSER BLADE" TO SAVE TIME, LABOR, AND MONEY. Write today for literature pertaining to your model tractor.

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CASH SHARPENING DISCS

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With the new portable Foley Disc Sharpener you can save a farmer time, trouble and money by sharpening his disc harrow in his own yard or shop—quickly and at low cost. The Foley Sharpener jacks up the harrow and rotates the discs while you grind them—no dismantling or hauling to town. Takes only 1 to 2 minutes per blade. Here's a service farmers really appreciate—and you can make up to $25 a day extra income during Winter months. Equipment easily carried in car trunk.

FREE—Send today for circular and FREE PLAN—shows how you can start in spare time CASH business. No experience needed.

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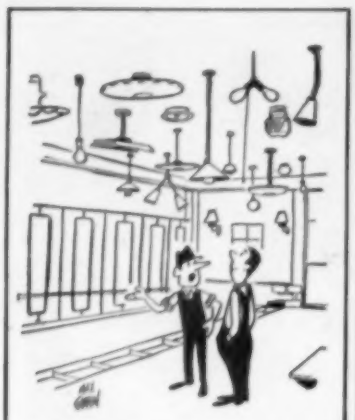

"I got darned good and tired working in my own shadow."

Soil Organisms Use Nitrogen

Fertilizer nitrogen is used faster by soil micro-organisms than by growing crops.

However, when conditions are favorable, it is not held long. Cornell University workers used a special form of nitrogen to trace the path of the element after it was added to soil.

Here's what happened when nitrogen was added to soil containing wheat straw. During the first week, organisms took up nitrogen at an average rate of 94 pounds per acre per day.

At the same time organisms were releasing organic nitrogen at the rate of 52 pounds per acre per day.

When green corn leaves were added to soil in place of wheat straw, more nitrogen was released than organisms took from the fertilizer. Difference is due to low nitrogen content of wheat straw.

What Is Cause Of Piles In Pigs?

To the Editor: Our three month old pigs are growing well. They're getting corn, oats, concentrate, and plenty of milk. What would cause piles among them? This happened last year too.—A. V., Murray county, Minn.

Rectal prolapse or piles in pigs may be caused by several conditions. In many cases, tendency toward piles is inherited.

Remove any pigs that show rectal prolapse. A diet of finely ground feed can be fed to those pigs.

If pigs are gilts, mark them so you won't keep them for breeding stock.

Lay Eggs With Soft Shells

To the Editor: Several of our hens lay eggs with shells so soft that the eggs break as soon as they are laid. What causes this? What shall we do for it?—Mrs. E. A., Winnebago county, Iowa.

Soft shelled eggs are caused by a rapid movement of the egg thru the passages where the shell is formed. This may be due to heavy feeding. Some people believe this tendency is inherited.

Try cutting back on feed carefully to the extent that production is not affected. Also, add one pound of finely ground limestone to 100 pounds of your laying mash.

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Don't take the chance of having a storm knock out your electricity. A low-cost Winco tractor-driven generator gives you your own emergency source of electric power. Keeps milker, brooder, automatic heating, refrigeration, lights, water systems operating when highline power fails. Low cost because your tractor powers it. 3500 to 10,000 watts AC. 115/230 Volt, 3 wire; or 120/208 V, 4 wire.

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World's Finest Portables! Exceptionally Rugged Heavy-Duty Model . . . **priced right!** Extra-wide 18" to 22" galvanized steel sections. Extra-heavy double No. 62 chain. 4-roller power-elevated derrick. Roller bearings throughout. Also Big 20" wide Model at AMAZING LOW PRICE. Elevates everything—baled hay, corn, small grain. Write for FREE Catalog and Prices **Today!**

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Send for FREE Crib blueprints with materials list. Also FREE Elevator Catalog showing 10 styles. Write TODAY!

Meyer Farm Elevators — Cup and Portable
Simplest, strongest—no short turns. Widest, sturdiest PORTABLE—handles everything. Write us your crib problems today! State if interested in BUCKET or PORTABLE.

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Pumps 3,000 GPH; 450 GPH 80' high, or 1,800 GPH from 25' well. Use 1/6 to ¼ HP motor. Coupling included free. 1" inlet; ¾" outlet. Stainless shaft. Won't rust or clog! Postpaid if cash with order. MONEY BACK GUARANTEE.
Labawco Pumps, Belle Mead 1A, N. J.

MASSEY-HARRIS 16-Foot COMBINE
For sale. Bought new late last fall.
P. O. Box 92 Cozad, Nebraska

Use picker-sheller and dryer?

Farmers who use this new method of harvesting corn point to advantages

SHOULD you switch to the picker-sheller-dryer method of harvesting corn?

Illinois experiment station studies show that the method has some advantage over regular corn harvesting methods. But the difference was not great enough to claim that one method was superior to the other—at least not on every farm.

Whether or not you should change to a picker-sheller-dryer operation may depend on your own situation. But if you're planning to build new corn storage, it may pay to investigate this new method of harvesting. Here are some points to consider.

New storage for shelled corn will cost less than for ear corn. The savings in building costs will usually have to be invested in a dryer.

While field shelling is being done in some cases without a dryer, this piece of equipment is necessary to take full advantage of the system.

One advantage of picker-shellers is lower hauling costs. Since less trips are required to haul shelled corn, it often makes it possible for one man to handle the entire harvesting operation.

Albert Boes of Carroll county, Iowa, harvested 85 acres of corn alone last year with his picker-sheller. He starts picking when corn reaches 30 percent moisture. A dryer is used to lower moisture content.

Boes says this method allows him to start harvesting his corn earlier and reduces field loss during picking. It also cuts down on risk of higher loss late in the season. Another advantage: It allows Boes to plow all of his corn ground in the fall.

John Johnson of Buena Vista county, Iowa, has had several years experience with picker-sheller-dryer combination. He has picked over 800 acres with his picker-sheller. Last year he picked 75 acres without any help.

Johnson says you can pick and shell corn up to 46 percent moisture, but it works best at 30 percent.

Most farmers agree that the main advantage of this method of harvesting is that it allows earlier picking. You can start picking at 35 percent moisture (when corn is mature), and you won't have too much trouble with down corn.

The usual field loss for all type pickers runs around 10 percent. However, earlier harvesting cuts down on ear drop which would reduce this for picker-shellers. If corn is hit hard by borers or wind, loss later in the season could run as high as 20 percent.

Floyd Doxtad of Ida county, Iowa, used his picker-sheller to harvest 100 acres of corn last season. Earlier harvesting cuts field loss, he noticed.

Doxtad says that while initial costs may be greater, you make up for this by saving in labor and storage costs. Doxtad stored much of his corn in an unused hog barn. It was reinforced for shelled corn at a cost of less than $100. His plans are to tear down his old corn crib with overhead bins.

"With modern grain moving equipment you don't need overhead bins," says Doxtad.

Clifford and Wayne Rabe of Sac county, Iowa, use the picker-sheller-dryer system of harvesting because, according to Clifford, they "don't like to work." He says the method "cuts your hauling costs in half and leaves all the trash out in field where it can be turned under for manure."

The Rabes start picking at 27 percent moisture, using their dryer to bring down moisture content.

"Drying doesn't cost as much as shelling from the crib," says Clifford.—**A. W. Ranniger.**

"I heard you the third time."

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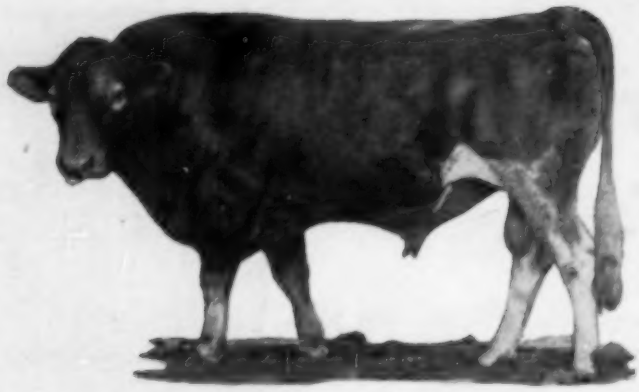

Tenth place in the 1955 Iowa Meritorious Sire Contest went to Clermont Count Perfection, owned by the Story County Guernsey Bull Association.

Top dairy sires honored

Ten Iowa bulls win meritorious sire awards at the annual Cow Conference

THE TOP ten dairy sires in the 1955 Iowa Meritorious Sire Contest won awards for their owners, provers and breeders at the annual Cow Conference at Iowa State College September 9.

The Iowa Meritorious Sire Contest is sponsored jointly by Wallaces' Farmer and Iowa Homestead and the Iowa State College extension service.

Wallaces' Farmer and Iowa Homestead make the awards. A total of 169 sires have been honored since the contest started in 1931.

A sire must be living and in Iowa on July 1 to be eligible for the contest. A regression index is used to determine the highest ranking sires proved during the year ending June 30.

The regression index is figured on the following points: 1. daughter-dam comparisons; 2. average production of Iowa cows on DHIA test, and, 3. more credit is given for improving daughters of high producing cows than for improving daughters of low producers.

The first place sire in this year's Meritorious Sire Contest is a Holstein, Veeman Skylark Ormsby, owned by Richard Burggraaff, Boyden. Breeder and prover was Joe C. Fiihr, Boyden.

Eight daughters averaged 17,255 lbs. milk and 644 lbs. butterfat. Eight dams: 15,513 lbs. milk and 565 lbs. butterfat.

A **Holstein**, Rockcrest Burke Governor, owned and bred by A. J. Johnson, Elkader, placed second. Prover: Giles Brothers, West Des Moines. He is leased to Eastern Iowa Artificial Breeding Association, Cedar Rapids.

Seven daughters averaged 15,612 lbs. milk and 587 lbs. butterfat. Dams: 12,943 lbs. milk and 461 lbs. butterfat.

Third place went to a Holstein, Hel-Maur Roamer Ebony. Owner, Eastern Iowa ABA. Breeder: Maurice Hickey, Davis Junction, Ill. Ten daughters averaged 16,050 lbs. milk and 567 lbs. butterfat. Dams: 13,631 lbs. milk and 480 lbs. butterfat.

Iowa Breeders Co-op, Des Moines, and Maytag Dairy Farm, Newton, are co-owners of the fourth place sire, a Holstein, Maytag Super De Luxe. Breeder: Maytag Dairy Farm, Newton. Prover: Roy Olson, Sac City. Seven daughters averaged 15,907 lbs. milk and 568 lbs. butterfat. Dams: 14,267 lbs. milk and 465 lbs. butterfat.

Fifth place went to the Holstein, Sir Kainz Regal Portage. Co-owners: A. A. Tieden, Monona, and Karl Kainz, Cedar Rapids. Tieden was the prover and Kainz the breeder. This sire is leased to Weaver Witwer, Marion. Five daughters averaged 14,235 lbs. milk and 586 lbs. butterfat. Dams: 13,511 lbs. milk and 530 lbs. butterfat.

Templeogue Sovereign Wayne, a Holstein, placed sixth. Owner and prover: Owen Tompkins and Son, Marengo. Breeder, Douglas Hawk and Sons, Hudson, Ohio. Eight daughters averaged 14,532 lbs. milk and 533 lbs. butterfat. Dams: 12,365 lbs. milk and 464 lbs. butterfat.

Iowa Breeders Co-op is the owner of the seventh place sire, a Holstein, Regier HRW Supreme. Breeder: Ed Regier, Whitewater, Kan. Five daughters averaged 13,788 lbs. milk and 532 lbs. butterfat. Dams: 12,049 lbs. milk and 435 lbs. butterfat.

Eighth place was won by a Brown Swiss, Luxmead Golden Boy. Owner: Eastern Iowa ABA, Cedar Rapids. Prover: Iowa State College. Breeder: Dr. J. W. Pirie, Cedar Rapids. Seven daughters averaged 12,320 lbs. milk and 473 lbs. butterfat. Dams: 8,787 lbs. milk and 356 lbs. fat.

A Brown Swiss, Telleen's Butter Barry, ranked ninth. Owner and prover: T. H. Luitjens, Ashton. Breeder: E. L. Telleen and Sons, Gowrie. Six daughters averaged 12,200 lbs. milk and 520 lbs. butterfat. Dams: 11,444 lbs. milk and 442 lbs. butterfat.

Tenth place went to Clermont Count Perfection, a Guernsey. Owner: Story County Guernsey Bull Association. Prover: O. R. Bentley and Son, Ames. Breeder, Jerry Spencer, Clermont. Eight daughters averaged 11,727 lbs. milk and 555 lbs. butterfat. Dams: 11,024 lbs. milk and 524 lbs. butterfat.

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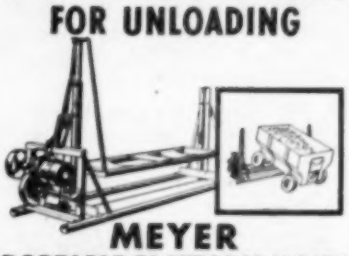

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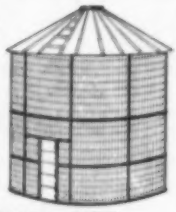

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1375 BUSHEL SIZE
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Without Painful Backache
Nagging backache, headache, or muscular aches and pains may come on with over-exertion, emotional upsets or day to day stress and strain. And folks who eat and drink unwisely sometimes suffer mild bladder irritation . . . with that restless, uncomfortable feeling.
If you are miserable and worn out because of these discomforts, Doan's Pills often help by their pain relieving action, by their soothing effect to ease bladder irritation, and by their mild diuretic action through the kidneys—tending to increase the output of the 15 miles of kidney tubes.
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Research Points

CORN FED STEERS reached choice grade 28 days faster than steers fed oats. But in Mississippi tests, steers getting oats did reach choice grade. They sold as high and actually returned more profit. The extra profit was due to low price of oats.

ABOUT NINE of every ten acres of corn in United States were planted with hybrid corn seed. That's up about two percent over last year.

ONLY PROFITABLE FAT on hogs now is that needed to produce high grade pork. Any excess fat costs more to put on than it sells for, points out Bill Zmolek of Iowa State College.

ONLY NUTRIENT LOST in any quantity when hay is properly stored from one year to another is carotene—vitamin A.

WIRE FENCES beat wood for summer cattle feeding in United States Department of Agriculture tests. Wire-fenced lots were almost four degrees cooler. Breeze moved thru them better. And cattle gained almost a half pound per head per day more.

HERE'S WHAT a survey showed about egg buying habits of Portland, Maine, homemakers: About one-third bought eggs direct from farmers. And 52 percent bought from retail stores. About 60 percent said they bought large eggs; 20 percent, mediums; 13 percent, extra large; and three percent, small. About 86 percent said they bought grade A eggs.

SAME HOMEMAKERS reported egg consumption patterns. About 72 percent said their families ate the same number of eggs the year around. But 14 percent said they used more eggs in winter. Ten percent used more in summer.

BETTER NUTRITION rather than more drugs should be the treatment for ketosis in cattle, says Robert Marshak, Vermont dairy specialist. A high producing cow starves herself by converting so much of her nutrients into milk. A stress condition follows. Some drugs are helpful in relieving the problem, too.

"I've always suspected you were a poor sport, Coleman!"

NEW! Walsh Air-Flo "LONG-TYPE" ALL-STEEL CORN CRIB

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- Increase capacity anytime by simply adding sections
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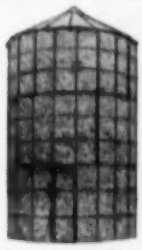

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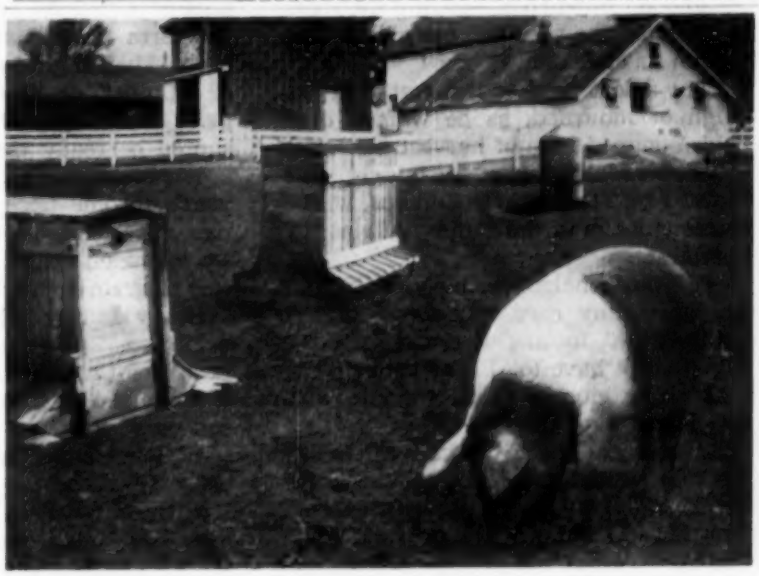


Cholera Emptied This Lot

Only one pig left . . . from a herd of 85! And they were all doing fine until cholera struck.

This fall, of all times, a person mustn't take chances with cholera. A big increase in outbreaks is predicted. No pig is safe unless vaccinated IN ADVANCE.

And for DEPENDABLE vaccination, be sure to have it done by a veterinarian. He can best choose from the various types of vaccination available. He can determine whether your hogs are in proper condition for treatment. And his skill and technique in the vaccination itself assure the kind of protection you can count on when cholera does strike. Play safe. Have your veterinarian vaccinate NOW, before serious outbreaks begin.

This message in the public interest is sponsored by American Foundation for Animal Health

MRS. ROBERT SAFELY, Greene county, Iowa, like the woman who wrote the article below, believes that every family should have an effective spending plan.

It pays to have spending plan

THE tornado ripped thru our pasture and on downriver, tearing off roofs as it went. The wind did not hit us. The hail on its edge did.

"Not a lost weekend; a lost year," a neighbor mourned, as he walked over fields stripped bare of harvest.

"We'll really have to budget this year," I said to another neighbor, whose oldest child is in the same grade as my youngest.

My young neighbor, busy with sewing and baby care, answered, "Don't say 'budget' to me. I won't spend a cent I don't have to. I'll be better off to make over clothes than to fiddle with pencil and paper."

Later she added, "If you can show me a way to figure choices—which of two spending plans is right—you can sell me that system instead of a budget."

"That's what I call a budget," I said, thinking of the plan we use: Just a list of all we want, divided into four columns in order of need.

Sometimes we pencil them in on the back of the calendar. We number down the left side of the page from one to 12. Across the top we write the four divisions, according to freedom of choice.

First are the steady, basic costs that cannot be avoided. Next come needs that vary from year to year in their pressure. Third are desirable things that we hate to postpone, and fourth are choices where sacrifice will have to be made.

We list all choices for January on the same horizontal line. Opposite the bills expected for each season we write the farm product that should pay for each. That might be "Brockleface Calf," or "Dolly," or the number, hoped-for price and weight of pigs or calves that should be ready then.

We based our expected costs on last year's income tax report, and on other past experience. If income didn't promise to match outgo, we made plans for sale of grain or work away from home.

Every family must choose its own priorities. But a plan will indicate other problems that may crop up next month if we make an unwise choice now. It can prevent:

1. Being short on needed things because we spent too much on something that could have waited awhile.

2. Too much pressure on a season where income is low. Meeting our health and hospital insurance fees made us uncomfortable this spring, for instance, because they are set too close to tax time.

3. Repeating mistakes year after year when we need to analyze what farm project is losing money, and which family or farm investment is demanding more than its fair share of income.

Should the farm enter into a farm woman's budget? Should she plan on chicken money or an inflexible allowance separate from farm needs?

	BASIC, STEADY COSTS	NEEDS THAT VARY	GOOD IDEAS	CHOICES
1	Food	Auto expense	Phone	Furniture
2		Health; insur.		Coal
3	Taxes	Repairs		Household Equipment
4	Seed	Gas		
5			Fertilizer	Toll calls
6		Labor		
7				
8	Interest		Clothing	Recreation
9	Taxes		Insurance	
10			Fencing	
11		Machine hire	Replacements	
12	Debt payment		Feed	Gifts

WHAT WORKED OUT

In last year's emergency, our new "wish list" was the best feature. We faced the fact that we simply couldn't have these things without extra effort: coal instead of wood; concrete for the trench silo; curtains, clock, stove, heater, fertilizer, replacement calves, hog to butcher, extra hay, protein.

By planning to go to the mine for Iowa coal, by "swapping" things, and by doing extra work like writing this, we got the curtains, fertilizer, calves, five pigs, one load of hay, some coal, some protein, repairs for the old stove and the old clock.

WHAT DIDN'T WORK

1. Because we were not well insured for hail, we decided on part time work away from home to meet the gap our budget showed between income and outgo. We still think this was the wisest choice for us.

But we should have sold the calves when we started work. Death loss overbalanced gain when chore time was cut.

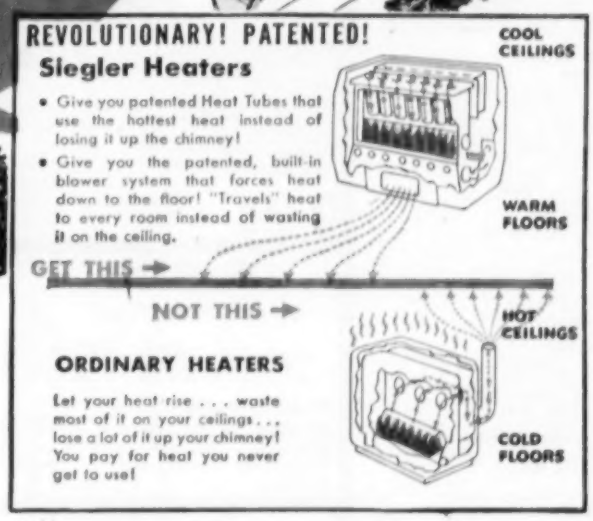
2. Also, car expense got out of hand. The auto and tractor repairs made by our sons stood the test of time better than the expensive garage overhaul.

3. Set-aside funds in small amounts per month did not work for us. Debts were paid better when a lump sum was wholly dedicated to that purpose when the check came in.—Farm Woman, Marshall county, Iowa.

COLD FLOORS?

Discover the miracle of

"TRAVELING HEAT"



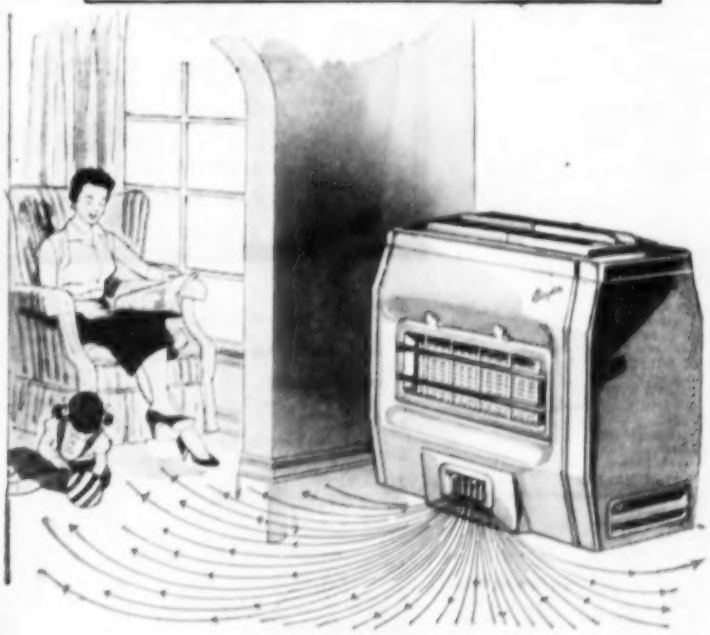
Enjoy Warm Floors!

Heat "travels" to every room without costly furnace pipes or registers to install!

You'll never again have to "live" in 1 or 2 rooms all winter—because the new Siegler Home Heater actually "travels" warm, even heat to every room in your home.

In every way, Siegler is the finest Home Heater you can buy. Saves up to half the fuel! Gives you up to twice the heat! Its heavy, cast iron construction gives constant, even heat and lasts a lifetime. Even its finish is different from ordinary heaters! The Siegler finish is porcelain fused to the metal—not just baked on paint! It won't discolor or flake off! And the Siegler Home Heater is so silent—only the warmth you enjoy tells you it's running!

No other home heater offers the comfort, safety and health for your family you get with a Siegler. See a Siegler Oil or Gas Home Heater today! The Siegler Corp., Centralia, Ill.



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Larger Size for 8 to 10 lb. fowl— Regular $1.40—**ONLY $1.19**

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Smaller size (8⅞x14¼") **ONLY 29c**

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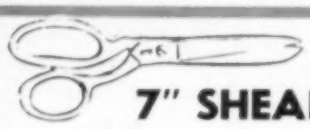

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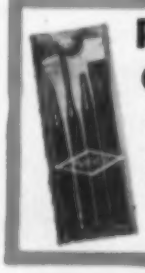

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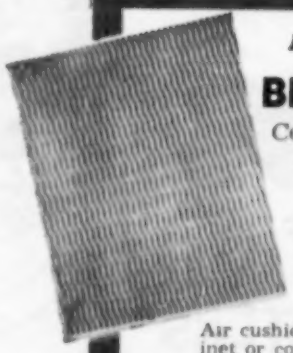

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No. 8044. Fresh, new-looking dress for women that's so versatile. Sizes 34 36, 38, 40, 42, 44, 46, 48. Size 36, 5½ yards of 35-inch.

No. 1451. A simple cleverly styled jumper for Teen Types that doubles as a date dress. Sizes 10, 12, 14, 16. Size 12, 4⅝ yards of 35-inch.

Nos. 8300 and 8301. Pretty puffed sleeve look-alikes. No. 8300 is in sizes 11, 12, 13, 14, 16, 18. Size 12, with sleeves, 4⅝ yards of 35-inch. No. 8301 is in sizes 3, 4, 5, 6, 7, 8 years. Size 4, with sleeves, 2⅛ yards of 35-inch. Two patterns, 30 cents each

No. 8289. This collared frock has a grown-up air that young girls will adore. Sizes 6, 8, 10, 12, 14 years. Size 8, cap sleeve, 3⅛ yards of 35-inch.

No. 8305. Carefully tailored slip that is cut on sew-easy princess lines. Panties included. Sizes 36 to 52. Size 38, slip, 5½ yards of 35-inch; panties, 1½ yards.

No. 8246. Slanted detail accents a collarless dress that's so versatile about the house. Sizes 12 to 20; 40, 42. Size 14, 4¼ yards of 35-inch.

Patterns are 30 cents each, coin preferred. Fall and Winter Fashion book is now ready. It is 30 cents. Order by number. Address your letters to Pattern Department, Wallaces' Farmer, Des Moines, Iowa.

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Get linoleum, wood, rubber, asphalt floors sparkling clean in a jiffy. No scrubbing. No rinsing needed.

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At least a hundred other uses for Perfex around the home and farm. The only cleaner that **dissolves** dirt, grime and grease. Save yourself both time and hard work. Over 15 million boxes sold! Keep Perfex on hand all the time!

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FOR BETTER HOME CANNING

Since 1873, Tone Brothers have processed fine spices, teas, coffee, and extracts. Tone's offer you a complete selection of spices for home canning. Look for the familiar orange and black packages on your grocer's shelf.

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on missing a single issue of Wallaces' Farmer and Iowa Homestead. If it's time to renew your subscription, get your order in the mail today!

You'll Want to Find Out

In each issue—What changes are being planned in ceiling prices for hogs, eggs and butter. Questions about timely farm jobs are answered in every one of the copies of Wallaces' Farmer and Iowa Homestead. Our editors specialize in figuring ahead as to what you will want to know when the paper comes out.

WALL BETWEEN the living room and a bedroom was removed to make a large livable room. Here are Mrs. Appel, Eileen and Gary at one end of this room.

MRS. APPEL finds her work much easier in her remodelled kitchen. She has lots of cupboard and counter space in addition to her new equipment.

Modern home on rented farm

Farm family now have an attractive, modern house

MR. AND Mrs. Raymond Appel rented a 320-acre farm in Grundy county, Iowa, in 1942. It was a good farm, but the big old-fashioned house was not modern. They wanted a good home for themselves and for their three growing children.

Thru a special arrangement with their landlord, and by doing a lot of the work themselves, Mr. and Mrs. Appel now have an attractive and completely modern farm home.

Some of the improvements include: a modern kitchen with new equipment, a new furnace, a bathroom and plenty of storage space.

MR. APPEL was talked into making these attractive window flower boxes that add decoration to the outside of the house.

Counting Board

WHY wait for your husband to make you something to keep track of the contents of your freezer? Do it yourself. You might like to try one like mine.

I used a pine board about 30 inches long, gave it a coat of paint, then drove two inch nails at intervals along the board. In front of each nail I wrote the name of the food. One end of the board is devoted to the various fruits I usually keep, the next section is for vegetables, and the other end counts beef, pork, chicken and fish. There are a number of extra nails for spares.

For counters I purchased some inexpensive chicken rings in different colors. Then I cleaned the freezer and placed the correct number of counters on each nail. When I add or remove a box of food, a counter may quickly be added or subtracted.

I keep my counting board on a ledge behind the freezer. But if the nails were driven at a slant it might be tacked to a wall. Also short pieces of dowling might be glued in holes made with a bit. This might make more of a professional job.—Mrs. Stephen Viggers, Washington county, Iowa.

Children at meetings

WHAT do your children do when you take them to meetings with you? Do they want to sit on your lap or wander around the meeting place? Neither way is satisfactory.

One way to interest children is to have club-owned toys. Children will be especially interested in these special toys since the only times they are able to enjoy them are during meetings.

When children bring their own toys, difficulties may arise. It may be hard to share a favorite toy. A toy may be broken accidentally. And by another child, which will embarrass the latter's mother!

These toys can be put in a suitcase, a laundry case or a large flat carton. That way they can be taken from one meeting place to another. The group can make some of these toys. Some may be donated, and some may be bought.

Costly medicine cabinet

"Money spent for a good tight medicine cabinet is money well spent," says a Missouri farm mother.

When the toddler climbed high enough to reach an open medicine shelf and drank the contents of a bottle containing a pretty red liquid, it almost meant her life. The doctor and hospital bills that followed would have bought many medicine cabinets with doors. It doesn't pay to take a risk with small children around.

APPLE 'N RAISIN PINWHEELS

Syrup:
1 cup granulated sugar
1 tablespoon lemon juice
1½ cups water

Filling:
2 tablespoons melted butter or margarine
½ cup brown sugar
1 tablespoon cinnamon
1½ cups diced raw apples
¾ cup raisins

Dough:
1½ cups sifted enriched flour
1 teaspoon salt
3 teaspoons baking powder
½ cup shortening
½ cup Quaker or Mother's Oats (quick or old fashioned, uncooked)
½ cup milk

Combine sugar, lemon juice and water. Heat to boiling; then cool while preparing pinwheels.

Sift together flour, salt and baking powder into bowl. Cut in shortening until mixture resembles coarse crumbs. Mix in rolled oats. Add milk, mixing lightly until dough is fairly free from sides of bowl. (Add a little more milk if necessary to make a soft dough.) Roll out on lightly floured board to form a rectangle about 8 x 12 inches. Brush with melted butter. Mix together brown sugar, cinnamon, apples and raisins; sprinkle over dough. Roll up like a jelly roll, sealing edges. Cut into 1½-inch slices. Place pinwheels cut-side-down in 8 x 12-inch pan. Cover with cooled syrup.

Bake in a hot oven (400°F.) 25 to 30 minutes. Serve warm, plain or with whipped cream. Makes 8 pinwheels.

CREAMY OATMEAL BREAKFAST WITH TOPPINGS

New Quick Quaker Oats cooks in only 1 minute. Gives you creamier, smoother oatmeal. If you prefer the taste and flavor of old-style oatmeal, try Old Fashioned Quaker Oats cooked a mere 5 minutes.

For variety serve oatmeal with such toppings as: jelly, brown sugar, butter, raisins, fruit, chocolate chips.

OATMEAL FUDGE BALLS

1½ cups sifted enriched flour
1 cup sugar
½ teaspoon salt
¾ cup shortening, soft
2 oz. (2 sqs.) unsweetened chocolate, melted
¼ cup coffee, cold
1½ cups Quaker or Mother's Oats (quick or old fashioned, uncooked)
Chopped nutmeats

Sift together flour, sugar and salt into bowl. Add shortening, melted chocolate and cold coffee. Beat until smooth, about 2 minutes. Fold in rolled oats. Shape dough in hands to make logs, balls and cones. Roll in chopped nutmeats.

Bake on ungreased cooky sheet in a moderate oven (350°F.) 10 to 12 minutes. Makes 3 dozen cookies.

PORK SAUSAGE PATTIES

1 pound bulk pork sausage meat
¼ teaspoon rubbed sage
1 cup Quaker or Mother's Oats (quick or old fashioned, uncooked)
½ cup water

Breading:
1 egg
¼ cup milk
Fine bread crumbs

Mix together pork sausage, sage, rolled oats and water thoroughly. Form mixture into 8 patties. Beat egg and milk together. Dip patties into egg, then into crumbs, then egg and crumbs again. Fry in a little hot shortening 15 to 20 minutes, turning once. Makes 8 patties.

4 delicious food treats
all from your package of Quaker Oats

Discover what a lot of good eating you get from high-protein Quaker Oats at breakfast and in delicious recipes.

Clip out and try the recipes shown here. Quaker Oats adds an especially good taste to dozens of foods. It gives desserts and cookies a rich nutty flavor. Holds the juices in meat dishes. And what other breakfast cereal—hot or cold—tastes as downright delicious as Quaker Oats? Or gives you so much nourishment?

America's most popular cereal

QUAKER OATS

Mother's Oats and Quaker Oats are exactly the same

Look for China, Carnival Ware, Cup and Saucer, or Aluminum Ware inside Mother's Premium Oats

Just turn it on! It's as easy as that with an automatic Philgas® water heater! You never have to even *think* about it. Just set the heater for the water temperature you want, and forget it. No waiting for the water to heat up. No skimping, no holding back! Plenty of piping hot water for doing the dishes and the laundry . . . for baths and for shaving . . . for everything and everybody! When all this hot water luxury costs only a few cents a day, there's no reason why you shouldn't have it. Call your Philgas Dealer and ask him to tell you about the different sizes and types of Philgas water heaters. Because Philgas heats water so *fast* you can use a smaller heater than is necessary with a less efficient fuel.

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Danny, son of Mr. and Mrs. Eugene Harvey, Marion county, Iowa, investigates and finds that lambs don't bite.

Why folks come to the fair

WHAT makes thousands of farm families come to the State Fair year after year? They come by the thousands regardless of weather, and they have been coming for generations. Perhaps it's because there is entertaiment for all ages.

There are machinery, livestock, household equipment and educational exhibits for adults. There are 4-H club programs, demonstrations and judging for young people. All ages like the midway.

Dry weather conditions stimulated a lot of interest in irrigation equipment. Mr. and Mrs. Adrian Schagen, Marion county, Iowa, look over some portable water sprinklers.

Mrs. Lee King, Greene county, Iowa, is not competing in the checker tournament. She's just an interested spectator. Player is Arie Terpstra, Jasper county, Iowa.

Cookery corner

Peach Coffee Cake

3 tablespoons soft butter
½ cup brown sugar
sliced peaches
⅔ cup milk
⅔ cup sugar
1½ teaspoons salt
½ cup shortening
½ cup warm water
2 packages or cakes yeast
2 beaten eggs
1 teaspoon vanilla
4 cups sifted flour

Melt butter in a 10-inch round cake pan. Sprinkle brown sugar in bottom of pan. Then arrange fruit on brown sugar. Scald milk, and stir in sugar, salt and shortening. Cool to lukewarm.

Measure water into a large mixing bowl. Sprinkle or crumble in the yeast. Add lukewarm milk mixture. Add beaten eggs, vanilla and flour. Stir until well balanced. Turn the batter into the prepared cake pan. Cover, and let rise in a warm place for one hour and 15 minutes or until doubled in bulk. Bake at 375 degrees for about 45 minutes.

Hot Water Sponge Cake

2 egg whites
¾ cup sugar
4 tablespoons hot water
½ teaspoon vanilla
2 egg yolks
1 cup cake flour
1¼ teaspoons baking powder
few grains salt

Beat egg whites until stiff, and beat in one-fourth cup sugar by teaspoons. Add hot water and vanilla to yolks. Beat until thick, and then beat in remaining sugar. Pour egg yolks over whites. Cut, and fold until evenly mixed. Fold in flour sifted with baking powder and salt. Bake at 350 degrees in a small unbuttered tube pan for 35 minutes. Or bake in cup cake pans for 20 to 25 minutes.

Stuffed Tomatoes

6 tomatoes
4 tablespoons chopped green pepper
¾ cup soft bread crumbs
4 tablespoons butter
½ cup tomato pulp
¼ teaspoon salt
dash of pepper
1 tablespoon chopped onion
buttered bread crumbs

Remove the stem end of tomatoes. Take out most of pulp. Sprinkle inside of tomatoes with salt, and invert for about 20 minutes. Cook green pepper for about five minutes in butter. Add bread crumbs, tomato pulp, salt, pepper and onion. Fill tomatoes with this mixture, and cover with buttered bread crumbs. Place in a buttered 1½ quart casserole, and bake in a very hot oven for 15 minutes.

Tomatoes in Cream

3 large tomatoes
flour
¼ cup butter
salt and pepper
½ cup cream
6 rounds toast

Cut tomatoes in thick slices, and dip in flour. Melt butter in skillet. Fry tomatoes lightly; sprinkle with salt and pepper. Pour in cream. Bring to boiling point. Simmer for five minutes, serve on buttered toast.

Whipped Cream Cake

⅔ cup heavy cream whipped
⅓ cup cold water
2 egg whites beaten stiff
1 teaspoon vanilla
1⅓ cups sifted cake flour
2 teaspoons baking powder
1 cup sugar
¼ teaspoon salt

Fold cream and egg whites together. Add water and vanilla. Sift the flour and baking powder, sugar and salt together four times. Add to mixture. Bake in a moderate oven (350 degrees) for 30 minutes.

PEACH COFFEE CAKE made with fresh or canned fruit is a delicious all season dessert. You'll find the recipe below.

Says she really loves to cook

Expert Cook Wins 16 Ribbons at Adams County Fair

Mrs. John Dotson certainly believes in starting at the top—at least as far as cooking competition is concerned! She won 16 blue ribbons in her very first cooking contest—at last fall's Adams County Fair.

Although new to competition, this Mt. Etna woman has been considered a top cook for years. In fact Mrs. Dotson is such an expert that her friends come to her for cooking advice. And you can be sure her advice includes a word about Fleischmann's Active Dry Yeast. "I always use this grand dry yeast," she says. "It's the very best—rises in a hurry every time."

If you bake at home you'll find it's convenient to serve yeast-raised specialties if you have Fleischmann's Active Dry Yeast in your cupboard. That's the handy dry yeast that comes in the "Thrifty Three" package—and it stays fresh for months. This grand dry yeast is so easy to use, rises in a hurry every time. In fact it's *guaranteed* fresher and faster rising or *double your money back*. Get the yeast prize-winning cooks prefer—Fleischmann's Active Dry Yeast in "Thrifty Three's"—the very best you can buy.

Get the New "Thrifty Three"

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Modern Appliances Are Time and Work Savers

Notice the appliance ads in this paper . . . see and read about these convenient items of modern day living that save you time, work and make your life a lot more enjoyable. A major appliance is one of the best household investments you'll ever make.

Wallaces' Farmer and Iowa Homestead

Home-Canning Food Notes

by Lucina Ball

IT'S SO EASY TO SERVE FOODS with your *own* distinctive flavors when you can them at home! Experiment with herbs and spices. They change the "same old thing" into a gourmet's fling-ding! Plan a shelf for party specialties, but don't neglect the family foods.

Sugar 'n Spice . . . Everything's nice, in sparkling Ball Jars on your own shelves! Try *spiced* jellies, mint pears, spaghetti sauce with herbs (ready for quick use!), barbecue and chili sauces, pickles and relishes.

Cucumber-Onion Relish

4 cups chopped cucumbers
2 cups chopped onions
1 cup chopped green peppers
1 cup chopped red sweet peppers
1 small pod hot red pepper
1 tbsp. salt
2 tsp. mustard seed
2 tsp. celery seed
1 cup sugar
4 cups vinegar

Wash, chop and measure vegetables. Mix all ingredients. Cook until vegetables are almost tender. Taste, add more sugar or salt if needed. Pour into hot Ball Jars, seal at once with Ball Dome Lids.

Protect With Enamel! For sealed-in flavor and goodness, use only Ball Dome Lids with *enamel* lining —as clean and sanitary when removed as when jars were sealed. They're so *easy* to test . . . dome *down*, jar *sealed!*

Visibility Unlimited! Quick selection, eye appeal, utmost protection are the reasons commercial packers of fine foods use glass. Ball Jars give *you* these advantages for *home* canning.

There IS A Difference! Home-canning jars and lids are *not* alike—insist on Ball. For best results, follow Ball Blue Book's 300 tested recipes, step-by-step instructions in full color. Send 25¢ in coin to: BALL BLUE BOOK, Dept. W925, Box 5, Muncie, Indiana.

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West Texas Woolen Mills, 447 Main, Eldorado, Tex.

Please mention Wallaces' Farmer and Iowa Homestead when writing to our advertisers—Thank you.

MRS. MELVIN GISSIBLE, Cass county, Iowa, starts fall chores early, by washing off the dust that collected during the long dry season.

Country air

JUST back from buttering buns for the annual REA meeting. Our church started the ham slicing and bun buttering and sack filling at seven a.m. and handed out the coffee and rest of the food to over 1,500 customers. I can't go as a customer for we can't have REA at our farm. We were already connected with a private utility. The farm has been electrified for over 50 years.

* * *

It's an abrupt change from summer vacation and fair time and the opening of club and church activities and organization meetings—especially when the weather does a sudden and appropriate change of heart about the same time. A light quilt and woolen blanket were both welcome last night.

* * *

I have always loved old-fashioned vaudeville, and wish it would come back to the theatres. The night show at our county fair this year with its topping of fireworks rated right up with State Fair shows. When I was a little girl, anything was a party for me if there was ice cream. Now anything to be a real party must be topped with fireworks.

* * *

There are so few things in this practical and scientific world that give the illusion of fairyland. The shower of colored stars with soft explosions releasing more colored stars come about as near to fairyland as my world weary old eyes see.

* * *

Start the evening off with a parade of 4-H livestock as magnificent as ours was this year, fill the middle with a good stage show, and end with fireworks.

* * *

As far as I'm concerned, the evening's prize should have gone to the young club assistant. As the parade of 250 head of beautiful livestock filed by, he named each boy and knew what club he belonged to. He needed no penciled list to refresh his memory. He had worked that closely with his boys. He knew them so well that he needed no reminders. All this besides the distracting business of being a happy young newlywed this summer!

* * *

The market hog show was the day's attraction for me. I didn't get there in time to see our pen run thru the ring. I watched the final judging, and I'm about as confused as ever. No wonder the buyers are cagey about bonuses—they don't seem to know too much either. The farm manager took me to a show at Hawkeye Downs last winter. I'd spot the hog I'd think was right, and Dean Kildee and others would turn thumbs down.

* * *

What we need is some kind of X-ray to show lean meat from fat. Wouldn't put it past the scientists to dig up one some of these days.

* * *

I went to the farm the night before the hogs were shown, I certainly am old-fashioned. I was brought up on old-fashioned lard hogs that were marketed once a year when all the neighbors came in with their wagons for a big hog haulin'. Is it any wonder I can't tell whether a 200-pound pig is just under fed or has grown more meat than fat.

* * *

That day at the county fair would have been perfect if we hadn't lost our car when it was time to go home. We'd parked it on the golf course under a tree with a barrel beside it. Trouble was there were a lot of trees and everyone had a picnic barrel ununderneath it. — Elizabeth C. Wherry.

Savings Bonds can help you "grow" a replacement

"You can only fix it so long"—

YOU CAN only get so much out of any one machine. Take your tractor, for instance. With good care, it may last eight or ten years. But, like all your vital machinery, it's going to wear out. And replacements cost money!

Thousands of farmers like yourself are saving for replacements *without any financial strain.* That's because they're salting away part of what their machines earn each year in United States Savings Bonds. $300 invested in these better-than-ever bonds grows to $400 in less than ten years. With that kind of a return, they'll even be able to afford some "extras" (and so will you), like a modern kitchen or more education for the youngsters.

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WAZINE brings new convenience to poultry worming. Just add WAZINE liquid to drinking water and your job is done. WAZINE removes 95% or more Large Roundworms. Test proved.

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When you need poultry medicines, ask for Dr. SALSBURYS

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1 OUT OF 3 DOES!

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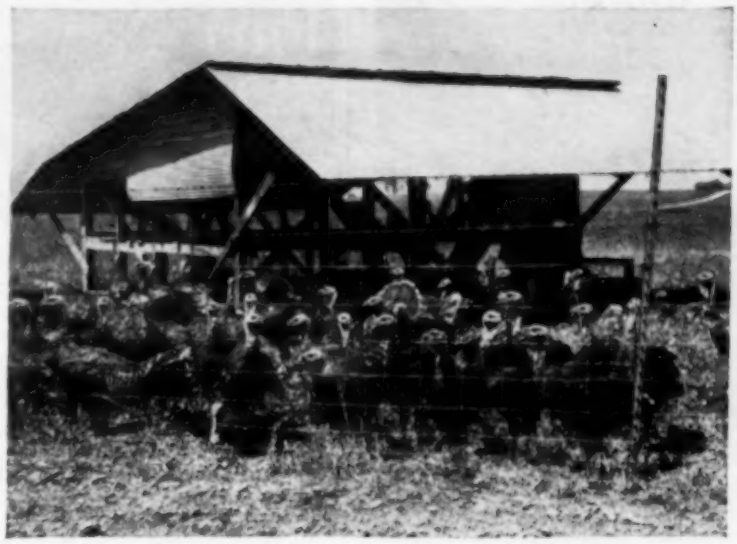

Temporary shade for turkeys on the Arthur Johnson farm in Des Moines county, Iowa. This range shelter has hinged sides that come almost to the ground to protect poults during cool weather.

The farm flock

POOR EGG SHELLS may be caused by several factors. But a cool laying house and oyster shell or ground limestone fed free-choice will help make stronger egg shells. Breeding is the most important factor in getting good egg shells, says Milt Sunde, University of Wisconsin poultry specialist.

▼ ▼ ▼

COMFORTABLE HENS will lay more and a higher percentage of top quality eggs. The type of laying house your hens are in determines their comfort. A well ventilated and insulated laying house offers best protection from quick changes in temperature inside the house. Insulated houses are cooler in summer and warmer in winter.

▼ ▼ ▼

LAYERS CAN TAKE cold weather better than hot weather. When it's extremely cold, hens eat more grain to stay warm. But in the summer, they don't eat enough on extra hot days to maintain body weight and high egg production. Hens prefer temperature of about 55 degrees.

▼ ▼ ▼

HUMIDITY of egg room may result in lower quality eggs unless kept at about 75 percent or above. High humidity prevents moisture from evaporating thru the egg shell. If eggs lose enough moisture thru evaporation, quality is lowered to the next grade.

▼ ▼ ▼

PULLETS LIKE to lay eggs in nests that have several eggs in them. Gather eggs often to prevent lowering of quality when other pullets sit on them while laying. Even tho you supply plenty of nests, some pullets will lay only in nests containing other eggs. Broken, dirty and lower quality eggs may result unless eggs are gathered several times a day.

▼ ▼ ▼

EGGS FROM PULLETS are high quality eggs and should sell for as much as larger eggs on a per ounce basis. Some consumers prefer pullet eggs.

▼ ▼ ▼

PULLETS NEED oyster shell or ground limestone to furnish calcium for egg shell development. Pullets can't store calcium in their bodies and need a constant supply of calcium material. Provide convenient boxes of oyster shell or ground limestone for pullets at housing time.

▼ ▼ ▼

HENS AND PULLETS should never be mixed. Sell the hens before moving the pullets to the laying house. You may want to keep your hens if they are laying 60 percent or better. But move them to temporary quarters and put pullets in the laying house.

▼ ▼ ▼

KEEPING OLD HENS may be profitable in some cases. But don't keep them just to increase the number of layers. If you remove non-layers from the hen flock and have space for the others and if they are still laying at a profitable rate, it may pay to keep them.

▼ ▼ ▼

IN 1800 the Iowa Homestead advised gathering eggs several times a day in winter to prevent them from freezing. We still advocate gathering eggs several times a day but for different reasons. In 1955, your profit may depend on the quality of your eggs.

▼ ▼ ▼

MORTALITY RATE goes up as hens get older. For each hen that dies, those left will have to lay about two dozen extra eggs to equal the income you could have gotten if you had sold the hen before she died.

▼ ▼ ▼

NEW EGG GRADING law has been in effect for a few weeks. Will your egg income go up or down as a result of the law? Write Wallaces' Farmer and Iowa Homestead, Des Moines, Iowa, and tell us what you think of the egg grading law.

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More and more Iowa poultrymen are turning to Honegger Leghorns for high poultry profits. They know that years of continuous breeding and research have made Honegger Leghorns outstanding. These birds have proved their superiority in official egg laying tests all over the country.

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Farm News Briefs

IOWA FARM people are getting a chance to see results of tests at nine Iowa State College experimental farms this fall. Field days have already been held at the Seymour-Shelby farm in Wayne county, the Grundy-Shelby farm in Ringgold county, and the Agronomy farm at Ames. Schedule for other field days is:

Luton experimental farm, Woodbury county—Sept. 20;

Carrington-Clyde experimental farm, Buchanan county—Sept. 20;

Howard county experimental farm, Howard county—Sept. 21;

Western Iowa experimental farm, Monona county—Sept. 21;

Clarion-Webster experimental farm, Hancock county—Oct. 5;

Soil conservation experimental farm, Page county—Oct. 19.

▼ ▼ ▼

FIRST PLACE in the 1954-55 records and reports contest for Iowa DHIA supervisors was awarded to Leander Menke of Swea City, Iowa. Menke is supervisor of the Kossuth No. 2 Dairy Herd Improvement Association. Contest recognizes the supervisors who are keeping the most complete, neat and accurate set of records. Dale Karr of Central City, supervisor of the Linn Cooperative DHIA, won second place. Awards were made September 9 at the annual Cow Conference at Iowa State College.

▼ ▼ ▼

TIMOTHY SEED production for Iowa in 1955 is estimated at 7,350,000 pounds. This is 14 percent less than the 8.5 million pounds produced in 1954 and 63 percent below the 10-year average annual production of 20 million pounds. Estimates are from the Iowa Crop and Livestock Reporting Service.

▼ ▼ ▼

FRANK EHMAN, Boone, Iowa, native, has been appointed assistant agricultural attache at Cairo, Egypt. Ehman was brought up on a farm and graduated from Iowa State College. He was a voc-ag teacher nine years, county extension director in O'Brien county, Iowa, from 1943 to 1945, and was with the Iowa Farm Bureau Federation from 1945 to 1954.

▼ ▼ ▼

REA LOANS for generation and transmission facilities totaled $41.1 million in the fiscal year ending June 30, 1955. In the previous 12 months, such loans came to $31.2 million. Figures are from the U. S. Department of Agriculture.

▼ ▼ ▼

COMING EVENTS: National Contour and Level Land Plowing Matches, Wabash, Ind., September 16-17; Iowa Farm Bureau Pork Clinic, Des Moines, September 22; Chicago Feeder Cattle Shows, September 22-23, October 13-14, and October 27-28; Ak-Sar-Ben Livestock Show, Omaha, September 23-October 2; National Dairy Cattle Congress, Waterloo, Iowa, October 1-8; International Dairy Show, Chicago, Oct. 8-15; American Royal, Kansas City, Mo., October 15-22.

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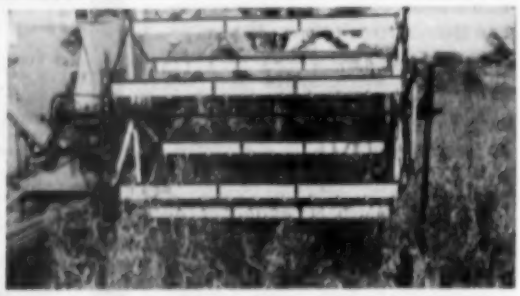

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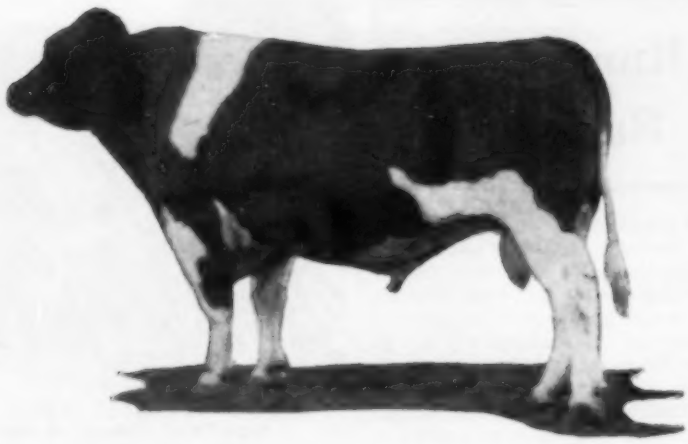


1st. Veeman Skylark Ormsby, a Holstein, owned by Richard Burggraff, Boyden.

Top Proved Sires

Winners in 1955 Iowa Meritorious Proved Sire contest pictured here

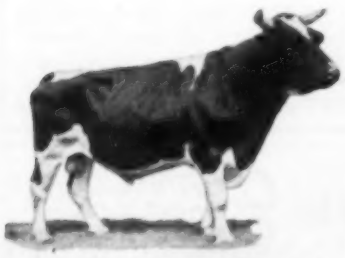
See pages 51 and 74 for record of proving for names of former winners still in service in Iowa.

2nd. Rockcrest Burke Governor, a Holstein, owned by A. J. Johnson, Elkader, and leased to Eastern Iowa ABA, Cedar Rapids.

3rd. Hel-Maur Roamer Ebony, a Holstein, owned by Eastern Iowa Artificial Breeding Ass'n.

4th. Maytag Super De Luxe, a Holstein, owned by Iowa Breeders Co-op, Des Moines, and Maytag Dairy Farm, Newton.

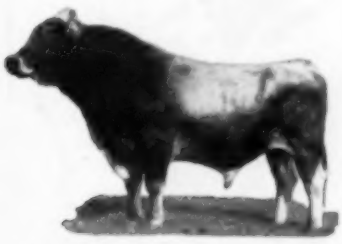
5th. Sir Kainz Regal Portage, a Holstein, owned by A. A. Tieden, Monona, and Karl Kainz, Cedar Rapids.



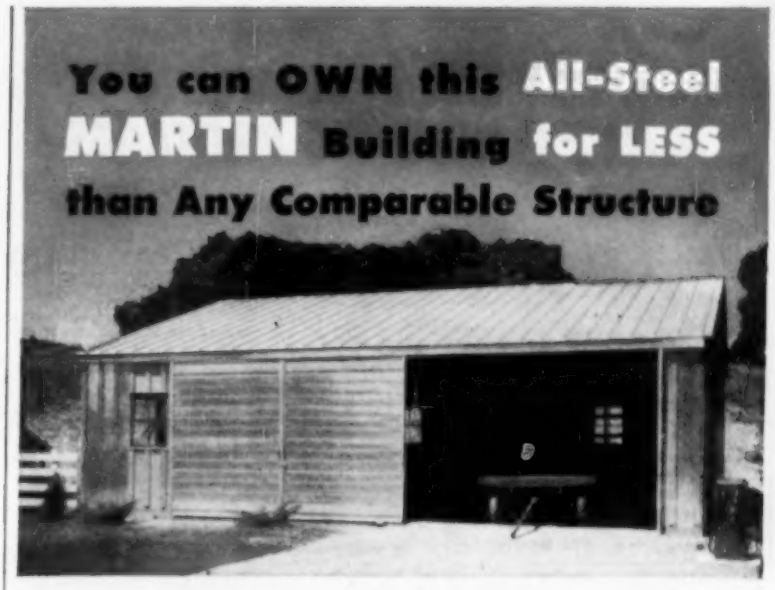
6th. Templeogue Sovereign Wayne, a Holstein. Owned by Owen Tompkins and Sons, Marengo.

7th. Regier HRW Supreme, a Holstein, owned by Iowa Breeders Co-op, Des Moines.

8th. Luxmead Golden Boy, a Brown Swiss, owned by Eastern Iowa ABA.



9th. Telleen's Butter Barry, a Brown Swiss, owned by T. H. Luitjens, Ashton.



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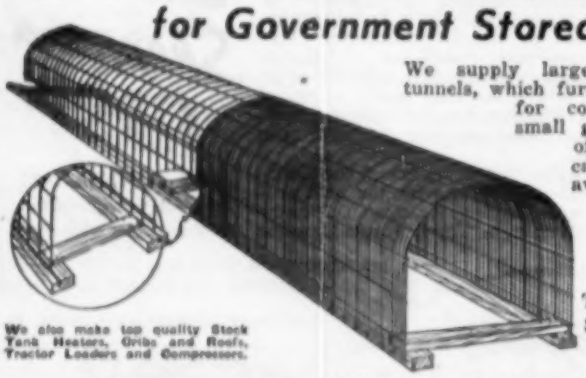

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Rural Route Ramblings

By R. F. D.

IN KEEPING with this column's tradition of always passing on experiences to the home owner so that he too can have a home in such a shambles as mine, I offer the following timely tips to the Do-It-Yourself house painter:

REMEMBER, that no matter how much paint you think it will take to do the job, double it. Or, better still, triple it. Buy at least six different size brushes, one of which you will use. Price doesn't matter unless you get into a really good professional painter's brush at $20 a copy. All the rest will shove the paint down your arm, thence to your neck and possibly, if you are wearing them, your shoes.

IF YOU PLAN on completing the job in a week, figure a month. Realize that the little patch of woodwork or trim is going to grow every day until it becomes a vast, unpaintable cliff of Dover.

BUY SOME EAR PLUGS so that you will not be able to hear advice from everybody from the paper boy, milk man, neighbors, ex-painters, casual friends, relatives right on thru to total strangers. Our house is on a highway, and I have had tourists from as far away as New Mexico, Florida and Far Rockaway stop and offer little tid-bits of knowledge.

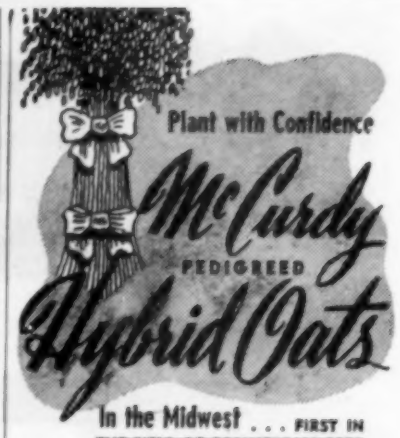
NOW THIS last pest, as he does not know me, I can dismiss by pointing at my ears and mouth and shrugging my shoulders.

PREPARE to throw away one pair of pants, one shirt and one pair of shoes—all paint encrusted. Expect shrubs and vines and grass and porches to take on the color of whatever color you are using . . . scream at your children for leaving little and even big smudgy fingerprints on the fresh paint . . . make your dog cower and head for under the porch whenever he sees you, paint brush in hand. . . .

PURCHASE all sorts of ladders, especially long ones. You will find that you have all sorts of paintable areas just out of reach of the longest ladder you own.

BUT BETTER and cheaper still, save money and hire a painter and go somewhere and lie down. When you awaken, you can heckle HIM!

"Ready to wake him up?"



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For the past eight years McCurdy Hybrid Oats have been bred, developed, processed and stored under our personal supervision: During this period performance tests have been regularly conducted, comparing McCurdy Hybrid Oats with widely-grown varieties. These tests have clearly shown McCurdy Hybrids to be superior.

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Our new hybrid oats are shipped in bags with our label and bearing our trademark. Each bag bears a breeder stock or pedigreed seed tag and is sealed before leaving our warehouse. Let us hear from you! We are now releasing McCurdy hybrid oats in limited quantities.

DEALERSHIPS AVAILABLE! We are looking for established dealers. References requested.

McCurdy Hybrids

FREMONT, IOWA

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PTO CORN SHELLER DRIVE

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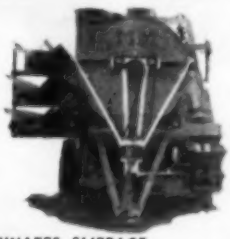
By Commercial Shellers and Farmers



★ ELIMINATES SLIPPAGE
★ ELIMINATES SETTING UP WITH BELT
★ ELIMINATES UNHITCHING TO MOVE SHELLER FROM JOB TO JOB

This power take off drive has a double roller chain drive that will not slip in wet weather, thereby eliminating a corn sheller's greatest trouble.

SEE YOUR MM DEALER OR WRITE

DRUM'S RUTHVEN, IOWA

Put CLEAN Corn in your cribs!

Sudenga CORN PICKER BLOWER

GIVES YOU BIGGER LOADS! PREVENTS CORN SPOILAGE!

Complete Attachments for Mounted or Pull-Type Corn Pickers

Regardless of picker make or model, the Sudenga Corn Picker Blower mounts under the elevator and blows the loose leaves, cornstalk, and dirt up into the air so that they fall behind or beside the wagon. Farmers report as much as 90% of dirt removed! Thousands of delighted users. Complete drives and mounting brackets available now for John Deere 25-320, Farmall 2-M (pictured above), 2MH, 3-4, 2P; AC mounted; J. I. Case; Oliver Two-Row, New Idea Two-Row (for both side or rear elevators on these last two makes). Most models $71.50 complete.

Write for illustrated literature. Indicate make of picker.

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Dept. W, GEORGE, IOWA

STRAWBERRY PLANTS — Dunlaps, Blakemores, Bellmars 100 $1.75. Superfection Gems 50 $2.00 ppd. Fresh dug. Ship last September
NELSON'S NURSERY, Box 401, Griswold, Iowa

SLOW DOWN AND LIVE!

Bob Kidney, exhibitor of the champion baby beef at the Iowa State Fair gets congratulations from Wendell Eason, of Greene county, Iowa, breeder of the winning steer. Frank Kidney, Bob's father is also pictured.

Hereford tops 4-H show

Greene county, Iowa, youth shows champion at 1955 Iowa State Fair

A 939-POUND Hereford topped a field of almost 500 4-H baby beeves to win grand championship honors at the 1955 Iowa State Fair.

Owner of the purple ribbon calf was 13-year-old Bob Kidney, son of a Greene county, Iowa, livestock buyer.

The grand champion sold for $2.20 per pound to a Nebraska brewing company. It was the highest price ever paid for an Iowa State Fair champion.

Young Kidney's calf came from the commercial herd of Wendell Eason, also of Greene county. He paid $123 for the calf a year ago. A town boy, Bob fed the calf in his father's stockyards.

Reserve champion of the baby beef show was a 1,028-pound Angus, also a native Iowa calf. Rodney Brannen of Muscatine county, Iowa, purchased his Angus calf from Kentridge Angus Farm, also of Muscatine county, last fall for $130. Rodney's father is manager of the Kentridge farm. Brannen's calf was not sold at the fair.

Craig Davis of Pottawattamie county had the champion Shorthorn baby beef. It sold for 42 cents per pound.

Reserve champion Hereford was shown by Margot Adams of Sac county. Charles Wood of Clay county had the reserve champion Angus. And Betty Trenary of Pocahontas county exhibited the reserve champion Shorthorn.

Champion county groups of baby beeves were as follows: Hereford, Marion county; Shorthorn, Muscatine county; Angus, Mahaska county, and mixed, Benton county.

Reserve champion baby beef, an Angus, was shown by Rodney Brannen of Muscatine county.

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Reciprocating Blade

HAND-SAW SAFETY
POWER SAW SPEED

WRIGHT POWER SAW
"Blade Works Like A Hand Saw"

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"... Safest Saw I've ever seen ..."
—Sidney Schultz, Beloit, Wis.

"I put off getting a power saw for years. Thought they were too dangerous in the hands of an amateur. One Wright Saw demonstration convinced me that anyone who could handle a hand saw could handle a Wright Saw ... it's so lightweight, and it does every cutting job I have—landclearing, felling, limbing, bucking, trimming fence posts—even precision woodworking cuts ... it's like having a chain saw, cross cut saw, and axe in one machine."

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IDEAL LINE

IDEAL PROFIT MAKING WATER EQUIPMENT

- A completely automatic watering unit that will furnish an ample supply of conditioned water for both cattle and hogs.
- Heavy gauge steel-welded seam construction for long life.
- Hinged covers for both troughs insure savings in heat costs.
- Fully insulated for additional heat savings.
- Designed for fence line installation to serve two feed lots.
- Drains in both troughs for easy cleaning.
- The Ideal can be automatically heated by electricity and gas thermostatically controlled, or with oil.

SIZE OF THIS IDEAL WATERER IS 23" x 30½" x 29" HIGH. WEIGHT 160 LBS.

LOADED WITH LABOR SAVING FEATURES

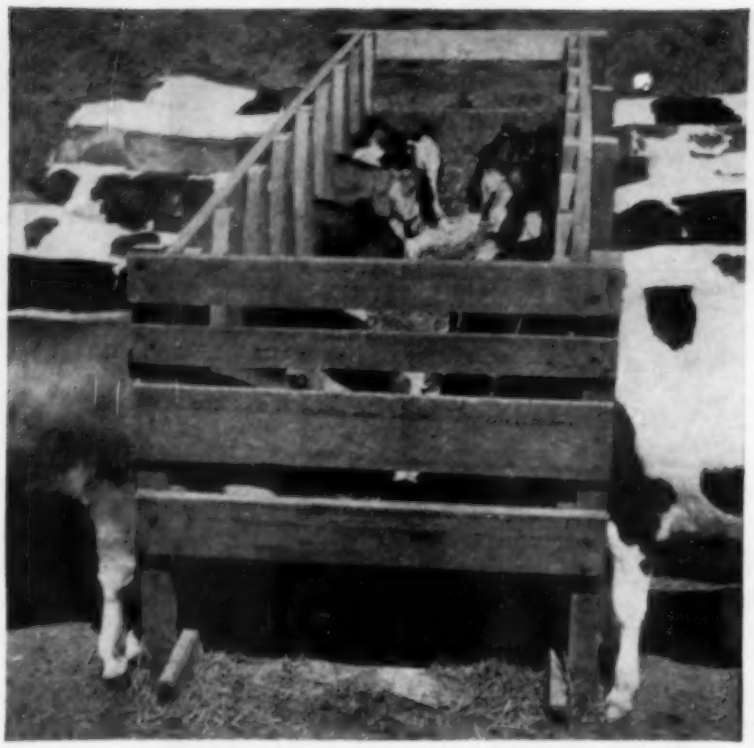
- You'll get automatic, dependable heating service for your livestock watering tank in the coldest weather with an Ideal Automatic Bottle Gas Tank Heater.
- Water temperature controlled by Robertshaw thermostatic controls.
- Air intakes and exhaust designed to protect against down drafts and high winds—assures continuous operation under all conditions.
- Large heat transfer area to efficiently handle 12,000 BTU's per hour at low cost.
- Control and elimination of condensation is fully guaranteed.
- Adjustable bracket for installation in any size water tank.

THE IDEAL BURNER AND CONTROL CAN BE RAISED TO A POSITION JUST BELOW TOP OF HEATER FOR EASY LIGHTING OF UNIT—A REAL SAFETY FACTOR.

SEE IT AT YOUR DEALERS NOW!

NATIONAL MFG. & STAMPING CO.
2425 DEAN AVENUE, DES MOINES, IOWA

Portable ear corn feeder for hogs was made from lumber that had been treated with a wood preservative. It promises long, low-cost service.



Feed bunks also will resist rot longer if made from treated lumber. This feeder is located on a University of Illinois farm.

Build 'em to last

. . . by using lumber that's treated with a preservative

YOU'VE seen what pressure treatment with a good preservative can do for wood fence posts. Properly treated posts last at least four or five times as long as untreated posts.

Similar benefits result when you use treated lumber in buildings and equipment. The preservative prevents rot. And you get extra years of service.

You get a big pay-off from pressure treatment if the lumber is used where it will be exposed to the weather, the ground or moisture.

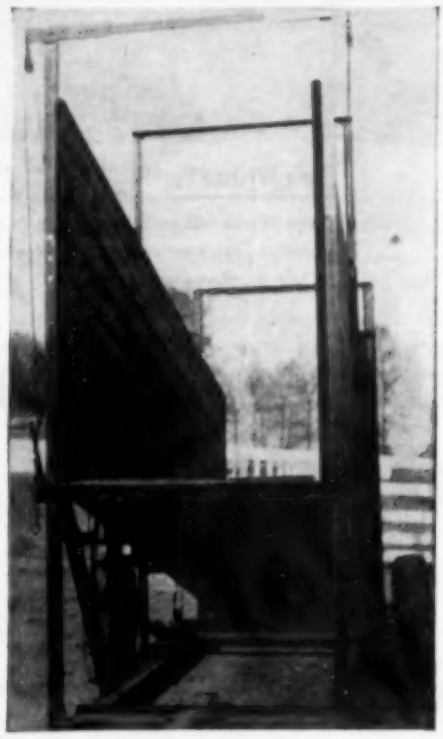
Most lumber dealers can supply pressure-treated lumber. And the extra cost of pressure treatment is low—compared to the extra life it adds to the lumber.

Both penta and creosote are recognized as excellent, effective preservatives. Penta-treated lumber has the advantage of being clean and easier to handle. It also can be painted after several months of weathering.

Suppose you have equipment or buildings made from untreated wood. How can you add life to them? Some protection can be obtained by flooding preservative on the dry, unpainted wood with a brush. Treatment should be repeated periodically. But it's not considered heavy enough to pay where the wood will be in contact with the ground.

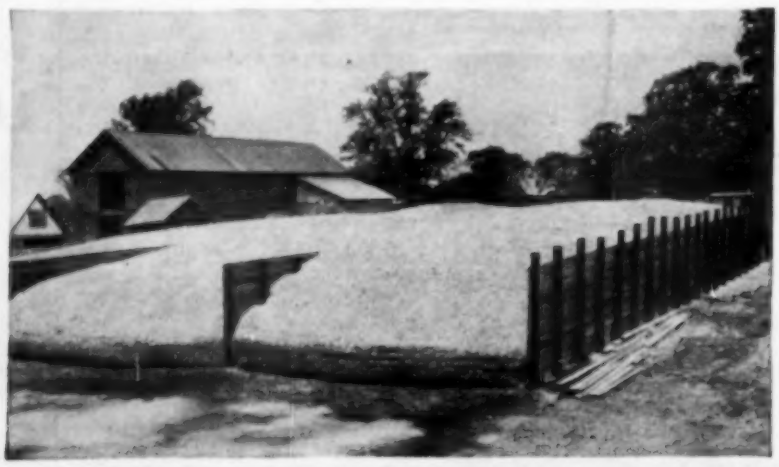
Best penetration results when the preservative is applied under pressure.

Best plan is to use pressure-treated lumber in construction. Wooden fences, farm gates, cattle guards, porch steps, portable buildings—those are some of the spots where it pays to use treated lumber. Others are pictured on this page.



Loading chutes usually rot out rather than wear out. But not this portable chute on an Indiana farm. It's made from treated lumber.

Sills, studs and poles in this Cass county, Illinois, brooder house were pressure-treated to aid in resistance to rot that may be encouraged by moisture.



Moisture around a silo such as the one shown above may cause untreated wood to rot rapidly. To lengthen the life of this silo, wood siding and bracing poles were pressure-treated.

"Oh, I still like farm life. It's just that I'm not the man I used to be."

Danger from hay fires

WATCH that late cutting of chopped hay. There's still danger of fire from spontaneous combustion, warns Dale Hull, Iowa State College agricultural engineer.

Chopped hay won't heat if it was dry enough when it went into storage. But hot, dry weather made it easy to under-estimate the amount of moisture in hay.

Leaves dried quickly and made hay seem dry. But stems lost moisture slowly. A lot of hay went up too wet, Hull thinks.

This is common in dry years, he points out. More hay fires were recorded in 1934 than any other year on record.

You can expect the danger period to continue thru November for late cuttings, says Hull. Main danger comes within a month.

Here are symptoms of heating:

- Hay feels hot to the hand.
- Strong burning odor.
- Visible vapor from the hay.

Hot spots in the hay can be located with a dairy thermometer inside a probe. Hay hotter than 140 degrees F. should be checked several times a day. At 160 degrees, check every hour. At 180 degrees, remove the hay from the barn.

Before removing heating hay, (1) call the fire department and have them set up, (2) get plenty of help, (3) remove hay cautiously.

Never walk on heating hay. Place planks over the hay. And walk on the planks. Don't breathe hot fumes coming from the hay.

Sometimes hay can be cooled. Dry ice can be dropped thru pipes into the hot spots. Or liquid carbon dioxide can be used. Be sure to check temperature often. And keep checking for some time after temperature has dropped below the danger point.

Farmers are also likely to find burned spots in chopped hay from earlier cuttings, Hull says. Much hay cut earlier went into the mow with wet stems.

Next year, there are precautions you can take. Avoid heating entirely by being sure both leaves and stems are dry enough for safe storage. Set chopper for maximum length of chop—not short like for silage.

If you think there may be danger at time hay is harvested, store it in picket cribbing away from farm buildings.

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Here's the easy way to fertilize many acres per day with high-growth-power nitrogen. Use ARCADIAN URAN Nitrogen Fertilizer Solutions.

ARCADIAN NITRANA Solutions are easy to apply 2 to 4 inches deep in the soil with simple equipment attached to a tractor.

*Trade-Mark

Get a head start on bigger crop profits by applying yield-boosting, labor-saving ARCADIAN Nitrogen Fertilizer Solutions. Use ARCADIAN URAN* non-pressure 32% Nitrogen Fertilizer Solution, or, if you prefer, use ARCADIAN NITRANA* low-pressure 37% to 41% Nitrogen Solutions. **Now is the time to use either of these Nitrogen Solutions . . . .**

For plow-down for next year's corn crop to help soil microbes chew up cornstalks, straw, sod and other crop residues into nitrogen-rich, water-holding humus. Nitrogen Fertilizer Solutions, applied now, will feed your corn crop next year right through to a bigger harvest.

For fall-sown wheat and other small grains, Nitrogen Solutions used before or after planting give your crop a quick start, less winter kill and faster, stronger stooling out for top yields.

For top-dressing grass, Nitrogen Solutions, top-dressed on pastures, produce more and better high-protein, high-feed-value grazing for bigger yields of low-cost, high-quality meat and milk.

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Place your order for ARCADIAN URAN or NITRANA Nitrogen Fertilizer Solutions today. Get the best buys in easy-to-apply nitrogen. You have no bags to lift, no high-pressure tanks or fumes—just quick-acting, long-lasting, low-cost, easy-spreading nitrogen fertilizer. Apply your Solutions yourself or have your ARCADIAN Supplier do the entire job. It pays either way!

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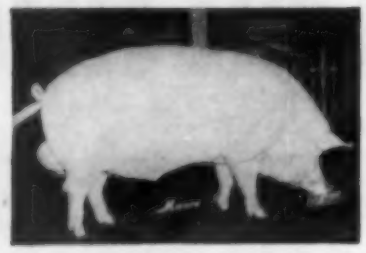
Livestock placings at Iowa State Fair

Grand champion Berkshire sow at the 1955 Iowa State Fair was shown by Milo V. Wolrab, Mount Vernon, Iowa.



Henderson Farm and Cerny Bros., Coin, Iowa, showed the grand champion Yorkshire boar at the 1955 Iowa State Fair.

Wm. Schubert & Sons, Stockton, Ill., had the grand champion Chester White boar at this year's Iowa State Fair.

Named grand champion Hampshire sow of the Iowa State Fair was Golden Bell, owned by Harold Fischer, Swea City, Iowa.

Hogs

CHESTER WHITES

Judge: Art Jordan, Columbus, Ohio.

Exhibitors (from Iowa unless otherwise indicated): Callahan Bros., Milford, Ill.; Conrad Farms, Hoyt, Kan.; Roy V. Copp & Sons, Glidden; Henry J. Dickinson, Sabula; Forrest Doty & Son, Malcom; Richard Eggers, State Center; Robert L. Eggers, State Center; L. E. Elson & Sons, Bondurant; Larry Haines, Bondurant; Ed Harms & Son, Amber; Hemphill Brothers, Cambridge, Ill.; Herbert F. Hoover, Oskaloosa; Harold Johannes & Sons, Kent; Seth W. Johnson & Son, Kiron; Henry Jurgensen, Olin; Leland Kellogg & Sons, Colo; Ron Kinney, Bondurant; James Longcar, Bondurant; W. A. McMahon, West Liberty; Bertha L. Meyer, New Hampton; Clarence Meyer, Waverly; A. H. Petersen, Jesup; R. A. Riemenschneider, Kingsley; Walter Schminke, Van Horn; Wm. Schubert & Sons, Stockton, Ill.; Smith Implement, Bondurant; Glenadean Van Zee, Pleasantville; R. C. Williams & Son, Iowa City; Williamson Brothers, Eagle Grove; Ray Williamson and Sons, Eagle Grove.

Boars: Aged (five shown)—1, Riemenschneider; 2, Copp & Sons; 3, Meyer. Senior yearling (five shown)—1, Hemphill Brothers; 2, Dickinson; 3, Petersen; Junior yearling (11 shown)—1, Schubert & Sons; 2, Hemphill Bros.; 3, Copp & Sons. Fall (11 shown)—1, Copp & Sons; 2, Eggers; 3, Johannes & Sons. Senior spring (20 shown)—1, Williamson Bros.; 2, Schubert & Sons; 3, Eggers. Junior spring (20 shown)—1, Petersen; 2, Copp & Sons; 3, Schubert & Sons. Senior champion boar—Schubert & Sons on Justifier 2nd (junior yearling); reserve, Riemenschneider on Sunnycrest White Lad (aged). Junior champion boar—Petersen on Determination (junior spring); reserve, Williamson Bros. on Lucy Prince (senior spring). **Grand champion boar**—Schubert & Sons on Justified 2nd (junior yearling); reserve, Riemenschneider on Sunnycrest White Lad (aged).

Sows: Aged (eight shown)—1, Petersen; 2, Eggers; 3, Johannes & Son. Senior yearling (five shown)—1, Doty & Sons; 2, Williams & Son; 3, Reimenschneider. Junior yearling (13 shown)—1, Riemenschneider; 2, Williams & Son; 3, Johnson & Son. Fall (13 shown)—1, Eggers; 2 and 3, Jurgensen. Senior spring gilt (20 shown)—1, Schubert & Sons; 2, Meyer; 3, Schubert & Sons. Junior spring gilt (20 shown)—1, Petersen; 2 and 3, Copp & Sons. Senior champion sow—Riemenschneider on Sunnycrest Minney (junior yearling); reserve, Williams & Son on Princess (junior yearling). Junior champion sow—Schubert & Sons on Silver Sue (senior spring); reserve, Eggers on Spotlight Mitze (fall). **Grand champion sow**—Riemenschneider on Sunnycrest Minney (junior yearling); reserve, Williams & Son on Princess (junior yearling). Premier Sire Award—Copp & Sons on Copp's Gold; reserve, Schubert & Sons on Justifier.

BERKSHIRES

Judge: Bob Faint, Blairsburg, Iowa.

Exhibitors (from Iowa unless otherwise indicated): Robert Altman, Pleasant Plains, Ill.; Bonnie Acres Farm, Holstein; Byron Bryant, Zearing; Alex Conover, Holstein; Clark Conover, Holstein; Lynn Engstrom & Sons, Stratford; Golden Glow Farms, Ionia; Earl E. Harwager, Grand Island, Neb.; Honey B Farms, Blair, Neb.; Kermit L. Hougen, Radcliffe; Delmar Jensen, Emmetsburg; Donald Williams McMurray, Harvey; Wm. C. Miller, St. Charles, Ill.; Proske Bros., Montpelier; C. W. Tucker, Newtown, Mo.; John C. Tucker, Newtown, Mo.; John Randall Tucker, Newtown, Mo.; Norman Van Den Baard, Pella; Cornie Van Den Baard, Pella; Joan Van Den Baard, Pella; Wm. Wilkening, Collins; Milo V. Wolrab, Mount Vernon; Vincent Wolrab, Mount Vernon; W. H. Zeisneiss & Son, Colo.

Boars: Aged (two shown)—1, Bonnie Acres; 2, Cornie Van Den Baard. Senior yearling (six shown)—1, Alex Conover; 2, Milo Wolrab; 3, Miller. Junior yearling (nine shown)—1, John C. Tucker; 2, McMurray; 3, Bonnie Acres. Fall (12 shown)—1, Bonnie Acres; 2, Miller; 3, Hougen. Senior spring (29 shown)—1, Milo Wolrab; 2, John Randall Tucker; 3, Honey B. Junior spring (19 shown)—1, Vincent Wolrab; 2, Milo Wolrab; 3, Hougen. Senior champion boar—John C. Tucker on Lynnwood Regent's Flash (junior yearling); reserve, Bonnie Acres on Four Oaks Surmount (aged). Junior champion—Milo V. Wolrab on Wayside Master Prince (senior spring); reserve, John Randall Tucker on Milky Way (senior spring). **Grand champion boar**—John C. Tucker on Lynwood Regent's Flash; reserve, Bonnie Acres on Four Oaks Surmount.

Sows: Aged (nine shown)—1, McMurray; 2, Honey B; , Hougen. Senior yearling (eight shown)—1, Milo Wolrab; 2, Proske; 3, Alex Conover. Junior yearling (14 shown)—1, Honey B; 2, Miller; 3, Milo Wolrab. Fall (17 shown)—1, Milo Wolrab; 2, Honey B; 3, McMurray. Senior spring (35 shown)—1, McMurray; 2, Miller; 3, Honey B. Junior spring (26 shown)—1, Honey B; 2, Bonnie Acres; 3,, C. W. Tucker. Senior champion sow—Milo Wolrab on Quality Ninetta (senior yearling); reserve, Honey B on Honey B Super Lady 2nd (junior yearling). Junior champion sow—McMurray on Convictioness of Green Valley (senior spring); reserve, Miller on Quality Donn's Betty (senior spring). **Grand champion sow**—Milo Wolrab on Quality Ninetta; reserve, Honey B on Honey B Super Lady 2nd. Premier sire award—Milo Wolrab; reserve, Honey B.

DUROCS

Judge: Wilbur L. Plager, Des Moines, Iowa.

Exhibitors: (from Iowa unless otherwise indicated): Herman F. Anderson, Des Moines; Lyle Barkema, Goodell; Bernard Bartholow, Washington; C. W. Bartholow & Son, Washington; Julius W. Black & Son, Marquon, Ill., Bert Brock & Sons, Sioux Center; Dave B. Broek, Hull; J. R. Caputo, Marshalltown; F. H. Christian, LaPorte City; E. J. Dinsdale, Traer; Dale Dixon & Sons, Bloomfield; Joe Duea, Thornton; Joe Duea & Hartle Brothers, Thornton; Victor, Sanford & David Duea, Roland; Georgie M. Ely, Rhodes; Laurel J. Ely, Rhoden; Fenmar Farms, Orion, Ill.; Paul Grouwinkle & Sons, Columbus Jct.; Harlan P. Harper, Melbourne; Joe Harper & Son, Grand Junction; Roger Harper, Pleasantville; Arnold Harris & Sons, Pilot Mound; High Prairie Farms, Rio, Ill.; Henry Hohwieler, Chester, So. Dak.; Iowa Falls Duroc Breeders Assn., Geneva; Kayward Farm, Iowa City Willard Klein, Iowa Falls; E. W. Klingaman, Waterloo; C. E. Louden, Grinnell; Hugh Louden & Son, Grinnell; Ernest L. McDermott, Anita; Everett Maahs, Walton, Nebr.; Bert E. Miller, Lisbon; Kermit Newbauer, Iowa Falls; Gerald D. Nevins, Tipton; Merle Nolte, Iowa Falls; Wayne Oler, Alden; Pearson Stock Farm, Radcliffe; Harry A. Petermeier, Melbourne; Norman Petermeier, Melbourne; Bob Off, Iowa Falls; Kenneth Schneider, Mount Carroll, Ill.; D. D. Staples & Son, Des Moines; Strowold Farms, Bowling Green, Mo.; Harold Timm, Muscatine; Perry Tinnell, Shenandoah; Ronnie Van Zee, Pleasantville; Greg F. Vaske & Sons, Dyersville.

Boars: Aged (five shown)—1, Schneider; 2, Elmer Willey; 3, Duea & Hartle Bros. Senior yearling (five shown)—1, Christian & Sons; 2, Elmer Willey; 3, Louden & Son. Junior yearling (13 shown)—1, Hohwieler; 2, Willard Klein; 3, Laurel J. Ely. Fall (seven shown)—1, Elmer Willey; 2, Strowold Farms; 3, Roger Harper. Senior spring (68 shown)—1, Elmer Willey; 2, Dave B. Broek; 3, Harper. Junior spring (38 shown)—1, Dave B. Broek; 2, Kayward Farm; 3, C. W. Bartholow & Son. Senior champion boar—Kenneth Schneider on Miracle Kiddo (Aged); reserve, Henry Hohwieler on Proud Hawk (junior yearling) Junior champion Boar—Dave B. Broek, on Ace's Banner (junior spring); reserve, Elmer Willey on Advantage Supreme (junior spring) **Grand champion boar**—Kenneth Schneider on Miracle Kiddo; reserve, Henry Hohwieler on Proud Hawk.

Sows: Aged (seven shown)—1, Klingaman & Son; 2, Christian & Sons; 3, McDermott. Senior yearling (six shown)—1, Laurel J. Ely; 2, Christian & Sons; 3, Elmer Willey. Junior yearling (15 shown)—1, Vaske & Sons; 2, Laurel J. Ely; 3, J. R. Caputo. Fall (10 shown)—1, Klingaman & Son; 2, Elmer Willey; 3, Bartholow & Son. Senior spring gilt (59 shown)—1, Bartholow & Son; 2, Willard Klein; 3, Kayward Farm. Junior spring gilt (39 shown)—1, Christian & Sons; 2, Louden & Son; 3, Herman F. Anderson. Senior champion sow—Klingaman & Son on Goldie Mae (fall); reserve, Vaske on Velvet Rosalie (senior yearling) Junior champion sow—Bartholow & Son on Rose (senior spring); reserve, Willard Klein on Lady Leader (senior spring). **Grand champion sow**—Klingaman & Son on Goldie Mae; reserve, Vaske & Sons on Velvet Rosalie. Premier Sire Award—Harlan P. Harper; reserve, Elmer Willey.

HEREFORDS

Judge: Arthur L. Anderson, Ames, Iowa.

Exhibitors (from Iowa unless otherwise indicated): Wendell Butler, Lacona; Lincoln Gall, Garner; Bill Haan, Garner; Bert F. Lyon, Sac City; Herbert & Bernard Schulte & Sons, Norway; John C. Schulte, Norway; Harris Sellers, Jr., Chariton.

Boars: Aged (none shown). Senior yearling (two shown)—1, Gall; 2, Lyon. Junior yearling (three shown)—1 and 3, Herbert Schulte & Sons; 2, Lyon. Fall (four shown)—1, Gall; 2, Butler; 3, Lyon. Senior spring (eight shown)—1 and 2, Herbert and Bernard Schulte; 3, Haan. Junior spring (eight shown)—1 and 3, Butler; 2, Gall. Senior champion boar—Gall on Bonnie Boy (senior yearling; reserve, Herbert & Bernard Schulte on Hawkeye Model (junior yearling). Junior champion boar—Butler on Midwest Jim (junior spring); reserve, Gall on TM Show Boy (fall). **Grand champion boar**—Gall on Bonnie Boy; reserve, Herbert & Bernard Schulte on Hawkeye Model.

Sows: Aged (four shown)—1 and 3, Herbert Schulte & Sons; 2, Lyon. Senior yearling (four shown)—1, Gall; 2, Herbert & Bernard Schulte; 3, Lyon. Junior yearling (four shown)—1, Gall; 2, Herbert Schulte & Sons; 3, John C. Schulte. Fall (five shown)—1 and 3, Butler; 2, Lyon. Senior spring (13 shown)—1, John C. Schulte; 2, Sellers, Jr.; 3, Haan. Junior spring gilt (10 shown)—1 and 3, Gall; 2, John C. Schulte. Senior champion sow—Lyon on Miss New Look Again (aged); reserve, Herbert Schulte & Sons on PVF Miss Select (aged). Junior champion sow—Gall on TM Bonnie (junior spring); reserve, John C. Schulte on PVF Midwest Fashion (senior spring). **Grand champion sow**—Herbert Schulte & Sons on PVF Miss Select; reserve, Gall on TM Bonnie.

TAMWORTH

Judge: E. B. Moore, Westfield, Ind.

Exhibitors (from Iowa unless otherwise indicated): John Beedle, Villisca; Chas. Booz & Son, Portis, Kans.; T. H. Bowers & Sons, Malcom; H. E. Cerny & Sons, Dorchester, Nebr.; James Cerny, Dorchester, Nebr.; Kenneth J. Conley, Marion; Dorothy England, Clearfield; Floyd Crest Farms, Sheldon; A. Hamm, Indianola; June Heffelfinger, Indianola; J. H. Jones, Ainsworth; Frank Madera, Traer; Ed Masteller, Independence; Propst Brothers, Iowa City; Propst & Piper, Iowa City; Ray Robertson, Mediapolis; R. E. Robertson, Madrid; G. A. Vriezelaar & Son, Otley; Gary A. Warth, Mediapolis.

Boars: Aged (two shown)—1, Booz & Son; 2, Jones. Senior yearling (three shown)—1, Booz & Son; 2, Floyd Crest Farms; 3, Beedle. Junior yearling (six shown—7, Floyd Crest Farms; 2, Jones; 3, Propst Bros. Fall (eleven shown—1, Floyd Crest Farms; 2, Hamm; 3, Booz & Son. Senior spring board (32 shown)—1, Booz & Son; 2, Floyd Crest Farms; 3, Heffelfinger. Junior spring boar (twenty shown)—1, Propst & Piper; 2, Hamm; 3, Floyd Crest Farms. Senior champion boar—Booz & Son on Mexicano Enrico (aged); reserve, Floyd Crest Farm on Sunny View Prince (junior yearling. Junior champion boar—Propst & Piper on Ardmore's Master (junior spring); reserve, Hammon A. H. Mac 1st (junior spring). **Grand champion boar**—Booz & Son on Mexicano Enrico; reserve, Floyd Crest Farms on Sunny View Prince.

Sows: Aged (six shown)—1, Booz & Son; 2, Conley; 3, Floyd Crest Farms. Senior yearling sows (two shown)—1, Conley; 2, Floyd Crest Farms. Junior yearling sows (10 shown)—1, Floyd Crest Farms; 2, Booz & Son; 3, Robertson & Son. Fall (10 shown)—1 and 2, Booz & Son; 3, Floyd Crest Farms; senior spring (35 shown)—1, Cerny; 2, Hamm; 3, Floyd Crest Farms. Junior Spring (18 shown)—1, Booz & Son; 2, Hamm; 3, Propst & Piper. Senior champion sow—Booz & Son on Meadowbrook Jean 3 (aged); reserve, Floyd Crest Farms. Junior champion sow—Booz & Son on Oakdale Rose 2 (fall); reserve, Cerny on CF Miss Mac 4 (junior spring). **Grand champion sow**—Booz & Son on Oakdale Rose 2; reserve, Booz & Son on Meadowbrook Jean 3. Premier sire award—Booz & Son; reserve Peterson.

HAMPSHIRES

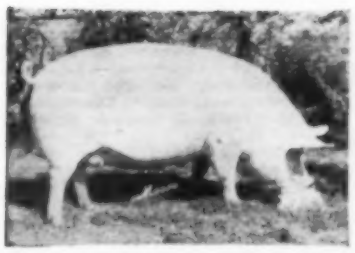
Judge: J. C. Hillier Stillwater, Okla.

Exhibitors (from Iowa unless otherwise indicated): Arthur Bailey & Sons, West Liberty; Bernard Brecht, Marengo; Roger Burlingame, Grinnell; Raymond E. Daggett, Conrad; Danielson Brothers, Nevada; Danielson Brothers, Roland; Dee Brothers, State Center; Duncan and Smylie, Columbus Jct.; David Dye, Unionville; Einfeldt & Hogan, Oskaloosa; Harold Fischer, Swea City; Eugene Fitz & Sons, Melbourne; Fred Fullmer, Belle Plaine; Fred F. Goodchild & Sons, Mallard; Grandview Farm, Lenox; Hanken Brothers, Alden; Hardisty Hampshire Farms, Corning; Earl Harwager, Grand Island, Nebr.; Mike Henderson, Coin; James Jamison, Columbus Jct.; Donald Karsjens, Parkersburg; C. T. Keen & Sons, Le Grand; Larry Kook, Durant; Allen Lang & Son, Brooklyn; Lettow Bros., Alden; Carl F. Lettow, Iowa Falls; Charles Lettow, Iowa Falls; Dale McGraw, Pleasantville; McGuire Hampshire Farm, Wisner, Nebr.; Everett Maahs, Walton, Nebr.; Frank Madera, Traer; Orville Meeker, Oakville; Phillip Miller, Unionville; F. C. Newlin & Son, Armstrong; Lee C. Norris, Fremont; Allen Paxton & Sons, Marshalltown; Dean Riemenschneider, Pierson; Emery Riemenschneider, Pierson; Riverview Farms, Belle Plaine; K. H. Robertson, Columbus Jct.; Raymond Schwartz & Sons, Walnut; William Sones, Bettendorf; Howard Soorholtz & Son, Melbourne; A. J. Steenhoek, Prairie City; Clarence J. Sueppel & Son, Solon; Treasure Acres Farms, Blairsburg; Pat Tufts, Bondurant; Vision Farms, Grand Mound; Walter Woodyard & Son, Indianola.

Boars: Aged five shown)—1, Newlin & Son; 2, Einfeldt & Hogan; 3, Riverview Farms. Senior yearling (four shown)—1, Vision Farms; 2, Duncan & Smylie; 3, Norris. Junior yearling (18 shown)—1, Emery Riemenschneider; 2, Harwager; 3, Lang & Son. Fall (10 shown)—1, Treasure Acres Farms; 2, Lettow Brothers; 3, Madera. Senior spring (62 shown)—1, Soorholtz & Son; 2, Steenhoek; 3, Duncan & Smylie. Junior spring (32 shown)—1, Duncan & Smylie; 2, Karsjens; 3, Lang & Son. Senior champion boar—Emery Riemenschneider on King Tip (junior yearling); reserve, Harwager (junior yearling). Junior champion boar—Treasure Acres Farms on Iowa Lad (fall); reserve, Soorholtz & Son on Hi-Ho 1st (senior spring). **Grand champion boar**—Treasure Acres Farms on Iowa Lad; reserve, Emery Riemenschneider on King Tip.

Sows: Aged (19 shown)—1, Fischer; 2, Lang & Son; 3, Keen & Son. Senior yearling (10 shown)—1, Norris; 2, Lang & Son; 2, Keen & Son. Junior yearling (26 shown)—1, McGuire Hampshire Farm; 2, Treasure Acres Farms; 3, Schwartz & Son. Fall (13 shown)—1, Lang & Son; 2 and 3, Treasure Acres Farms. Senior spring (63 shown)—1, McGraw; 2, Grandview; 3, Lettow Bros. Junior spring (20 shown)—1, Maahs; 2, Emery Riemenschneider; 3, Goodchild & Sons; Senior champion sow—Fischer on Golden Bell (aged); reserve, McGuire Hampshire Farm on Special Star (junior yearling). Junior champion sow—Maahs on Madam Miss (junior spring); reserve, Riemenschneider on Golden Gertie (junior spring). **Grand champion sow**—Fischer on Golden Bell (aged); reserve, McGuire Hamp-

(Continued on page 93)



F. L. Jackson & Sons, Lytton, Iowa, showed the grand champion Yorkshire sow at the Iowa State Fair this year.

Grand champion Poland China sow at the 1955 Iowa State Fair was shown by O. B. Olerich of Rolfe, Iowa.

(Continued from page 92)

shire Farm on Special Star (junior yearling). Premier Sire Award—Goodchild & Sons on Pretense Fair Play; reserve, Duncan & Smylie on Mr. Peepers.

YORKSHIRES

Judge: Tom Conover, Holstein, Iowa.

Exhibitors (from Iowa unless otherwise indicated): Alfred Accola, Huxley; James Beatty & Son, Hancock; Fred K. & Richard K. Bruene, Gladbrook; Don Campbell, Oxford; Cerny Brothers, Dorchester, Nebr.; James Cerny, Dorchester, Nebr.; Alvin Clark, Radcliffe; Warren Dankel, Glidden; Eugene Dugan & Sons, Storm Lake; Harry S. Endrulat, Battle Creek; Robert D. Endrulat, Battle Creek; Henderson Farm, Coin; Henderson Farm & Cerny Brothers, Coin; Joe Henderson, Coin; Mike Henderson, Coin; F. L. Jackson & Sons, Lytton; Gerald Jackson, Lytton; Kelly & Krieger, Dallas Center; Louis Kristof, Eddyville; Wesley Kuehl, Bettendorf; Jim Lein, Graettinger; Orville Lowe, Waukee; Jerry Mark, Iowa Falls; Clifton Moyers, Iowa City; Harold Nichol, Jr., Melbourne; Sharolyn Nichol Melbourne; L. M. Peters, Marion; Shirley Rice, Oconomowoc, Wisc.; Charles W. Ritter, Sac City; William Sandquist, Altoona; Harold C. Timm, Muscatine; Bob Wall, Alden.

Boars: Aged (two shown)—1, Kristof; 2, Accola; Senior yearling (four shown)—1, Henderson Farm and Cerny Bros.; 2, Peters; 3, Bruene. Junior yearling (four shown)—1, Campbell; 2, Dankel; 3, Kristof. Fall boar (10 shown)—1, Dankel; 2, Accola; 3, Lowe. Senior spring boar (43 shown)—1, Lein; 2, Accola; 3, Accola; Junior spring boar (22 shown)—1, Henderson Farm; 2, Peters; 3, Henderson Farm. Senior champion boar—Henderson Farm & Cerny Bros. on Oakvale Cosmo 231 H (senior yearling); reserve, Peters on MFN Field Marshall 800 H (senior yearling). Junior champion boar Lein on Tri-Ways Royal Marshall Glen (senior spring); reserve, Accola on Accolea's Sensation 13 K (senior spring). **Grand champion boar**—Henderson Farm & Cerny Bros. on Oakvale Cosmo 231 H; reserve, Lein on Tri-Ways Royal Marshall Glen (senior spring).

Sows: Aged (eight shown)—1, Cerny Bros.; 2, Lowe; 3, Accola; Senior yearling sows (seven shown)—1, Jackson & Sons; 2, Peters; 3, Dankel. Junior yearling (10 shown)—1 and 3, Accola; 2, Jackson & Sons. Fall (11 shown)—1, Cerny Bros.; 2 and 3, Accola. Senior spring gilt (48 shown)—1, Joe Henderson; 2, Henderson Farm; 3, Nichol. Junior spring gilt (30 shown)—1 and 3, Kelly & Krieger; 2, Timm. Senior champion sow—Jackson & Sons on Beau Ideal Cindy 057 H (senior yearling); reserve, Accola on Accolalea's Brocade 05J (junior yearling). Junior champion sow—Kelly & Krieger; reserve, Joe Henderson on Hytest Jennie 15 K (senior spring). **Grand champion sow**—Jackson & Sons on Beau Ideal Cindy 057H; reserve, Accola on Accolalea's Brocade 05J.

POLAND CHINAS

Judge: Herman Helgens, Monticello, Iowa.

Exhibitors (from Iowa unless otherwise indicated): Abrams Bros., Toledo; Oscar W. Anderson & Sons, Leland, Ill.; Brown & Brown, Hampton; Ed Crayne, Washington; J. A. Dickel, Ottumwa; Eugene Dugan & Chas. Higgins, Storm Lake; Eugene Dugan & Sons, Storm Lake; Emmert Farm, Mason City; N. L. Farmer & Son, Platte City, Mo.; Floyd Friedow & Sons, Kanawha; Jerry Hansen, Perry; C. H. Hesner, Independence; Carl Hirsch & Son, Indianola; R. F. Hagensick & Sons, Monona; E. S. Huinker, Decorah; Kelly & Krieger, Dallas Center; Oscar D. Larson, Webster City; H. M. Meneough, Grimes; Morgan & Morgan, Harlan; J. Cyrus Morton, Indianola; Elwood Olerich, Rolfe; Jon Olerich, Rolfe; O. B. Olerich, Rolfe; Lyle M. Olson, Atkins; Elliott Partridge, Collins; Norman Partridge, Collins; Penningroth Brothers, Wellman; Louis H. Reilly, Algona; E. Gene Scott, Leon; Watts Farm, Clarion; Wengert Bros., State Center.

Boars: Aged (five shown)—1, Carl Hirsch; 2, Eugene Dugan & Chas. Higgins; 3, Anderson & Sons. Senior yearling (five shown)—H. M. Meneough; 2, Wengert Brothers; 3, Louis H. Reilly. Junior yearling (nine shown)—1, Emmert Farm; 2 and 3, Brown & Brown. Fall (12 shown)—1, Oscar W. Anderson & Sons; 2, Floyd Friedow & Sons; 3, Louis H. Reilly. Senior spring (47 shown)—1 and 2, Oscar D. Larson; 3, Brown & Brown. Junior spring (42 shown)—1, Morgan & Morgan; 2, Oscar W. Anderson & Sons; 3, Carl Hirsch & Son. Senior champion boar—Emmert Farm on Genetic Giant (junior yearling); reserve, Meneough on Best Man (senior yearling). Junior champion boar—Larson on Special Kind (senior spring); reserve, Anderson on Prairie View Flash (fall); **Grand champion boar**—Emmert Farm on Genetic Giant; reserve, Meneough on Best Man.

Sows: Aged (seven shown)—1, O. B. Olerich; 2, Anderson & Sons; 3, Dugan & Sons. Senior yearling (10 shown)—1, Morgan & Morgan; 2 and 3, Anderson & Sons. Junior yearling (19 shown)—1, Morgan & Morgan; 2, Hirsch & Son; 3, Friedow & Sons. Fall (20 shown)—1 and 3, Anderson & Sons; 2, Reilly. Senior spring (28 shown)—1, Larson; 2 and 3, Brown & Brown. Junior spring gilt (35 shown)—1, Dugan & Sons; 2, Elwood Olerich; 3, Reilly. Senior champion sow—O. B. Olerich on Princess Ann (aged); reserve, Morgan & Morgan on M&M Gem (senior yearling). Junior champion—Larson on Miss Special Kind (senior spring); reserve, Brown & Brown on Hillcrest She's a Pipper (senior spring). **Grand champion sow**—O. B. Olerich on Princess Ann; reserve, Morgan & Morgan on M&M Gem. Premier Sire Award—Oscar Anderson; reserve, Oscar Anderson.

SPOTTED POLAND CHINAS

Judge: Leon Frantz, Grand Junction, Iowa.

Exhibitors (from Iowa unless otherwise indicated): A. J. Anderson & Sons, Kellogg; Carroll Anderson, Kellogg; John Claussen & Son, Davenport; Duane Dotson, Atalissa; Eddie Brothers, Storm Lake; Roger Eddie, Storm Lake; Russell Eddie, Storm Lake; Don J. Esslinger, Bayard; R. A. Fee, Peasantville; Rodney Fee, Pleasantville; Fred Fuller, Iowa Falls; Gary Fuller, Iowa Falls; Keith Goehring, Selma; Larry Goehring, Selma; Clifford Goff & Sons, Burwell, Neb.; Charles Hawbaker, Dallas Center; John Heemstra, Lucas; Merrill Heemstra, Lacona; Neil Heemstra, Lacona; Bill Hemm, Chapin; Vernon Irlbeck, Templeton; W. E. Irlbeck, Templeton; Earl Kellogg & Sons, Winfield; Oryne Kerston, Dysart; McElroy Bros., Afton; Willard Merryman, Marshalltown; M. C. Mountain & Sons, Lorimor; Cecil D. Murphy, Atlantic; Robert F. Murphy, Atlantic; Wm. J. Murphy, Atlantic; Norman Pothast, Spencer; J. W. Triggs & Sons, Mount Ayr; R. D. Wilson & Son, St. Charles.

Boars: Aged (five shown)—1, Claussen & Son; 2, Anderson & Sons; 3, Hemm. Senior yearling (four shown)—1, Dotson; 2, Fred Fuller; 3, W. E. Irlbeck. Junior yearling—(14 shown)—1, Merryman; 2, Anderson & Sons; 3, Heemstra. Fall (11 shown)—1 and 2, Goff & Sons; 3, Anderson & Sons. Senior spring (43 shown)—1, Hemm; 2, Keith Goehring; 3, Hawbaker. Junior spring (36 shown)—1, Fred Fuller; 2, Keith Goehring; 3, Anderson & Sons. Senior champion boar—Claussen & Son on Dynamite 489391 (aged); reserve, Dotson. Junior champion boar—Hemm on Jitterbug (senior spring); reserve—Keith Goehring on Royal Gem (senior spring). **Grand champion boar**—Claussen & Son on Dynamite; reserve, Hemm on Jitterbug.

Sow: Aged (12 shown)—1, Goff & Sons; 2; Hemm; 3, Vernon Irlbeck. Junior yearling (nine shown)—1, Goff & Sons; 2, Hemm; 3, Triggs & Sons. Fall (10 shown)—1 and 3, Dotson, 2, Anderson & Sons. Senior yearling (eight shown)—1, W. E. Irlbeck; 2, Triggs & Sons; 3,

(Continued on page 94)

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Fifty Years 1905 1955

R. A. Riemenschneider, Kingsley, Iowa, showed the grand champion Chester White sow at the 1955 Iowa State Fair.

Grand champion Poland China boar at the 1955 Iowa State Fair was exhibited by Emmert Farm, Mason City, Iowa.

State Fair Results

(Continued from page 93)

Kellogg & Sons. Senior spring (44 shown—1, Hemm; 2, Eddie Brothers; 3, Anderson & Sons. Junior spring (20 shown)—1, Cecil D. Murphy; 2, Keith Goehring; 3,, Eddie Brothers. Senior champion sow—Goff & Son on Sally; reserve, Goff & Sons on Royal Ann (junior yearling). Junior champion—Hemm on Chorus Girl (senior spring); reserve, Eddie Bros. on Mary Ann (senior spring). **Grand champion sow**—Goff & Sons on Sally; reserve, Hemm on Chorus Girl. Premier Sire Award—Eddie Bros.; reserve, Keith Goehring.

FFA Breeding Pigs

Judges: E. L. Quaife, Ames, and J. C. Hillier, Stillwater, Okla.

Poland China: Boars (seven shown)—1, Ed Crayne, Washington; 2, Jon Olerich, Rolfe; 3, LeRoy Watts, Clarion. Sows (15 shown)—1, Ed Crayne; 2, Jon Olerich; 3, LeRoy Watts. Litters (four shown)—1, Ed Crayne; 2, Jon Olerich; 3, Jimmie Barglof, Spencer.

Duroc: Boars (15 shown)—1, Harold Cashman, Indianola; 2, James Hanson, Vinton; 3, Bob Off, Iowa Falls. Sows (28 shown)—1, Lee Faris, Mt. Ayr; 2, Harold Wm. Schell, Boone; 3, Harold Cashman. Litters (13 shown)—1, Harold Cashman; 2, Lee Faris; 3, Bob Off.

Chester Whites: Boars (10 shown)—1, Floyd Doty, Malcom; 2, Raymond Cantonwine, Vinton; 3, Larry Haines, Bondurant. Sows (20 shown)—1, Floyd Doty; 2, Raymond Cantonwine; 3, Larry Haines. Litters (nine shown)—1, Raymond Cantonwine; 2, Larry Haines; 3, Donald Kramer, Waukee.

Spotted Poland China: Boars (two shown)—1, Delbert Elmquist, Exira; 2, Norman Weuve, Colo. Sows (three shown)—1 and 2, Delbert Elmquist; 3, Norman Weuve. Litters (one shown)—1, Delbert Elmquist, Exira.

Hampshires: Boars (12 shown)—1, Larry Mills, Greenville; 2, David Dye, Unionville; 3, Don Brown, Elberson. Sows (22 shown)—1, John Kueny, Vinton; 2, Larry Mills; 3, Russel Larson, Greenville. Litters (nine shown)—1, Larry Mills; 2, Russel Larson; 3, Ken Nielsen, Humboldt.

Berkshires: Boars (six shown)—1, Bill L. Jacobsen, Rutland; 2, Wayne Kunert, Humboldt; 3, Dale Norem, Eagle Grove. Sows (11 shown)—1, Bill L. Jacobsen; 2 and 3, Duane Hockel, Hardy. Litters (four shown)—1, Bill L. Jacobsen; 2, Duane Hockel; 3, Marvin A. Elliott, Anamosa.

Tamworths: Boars (six shown)—1, Gary Seversiche, Radcliffe; 2, Ed Fretz, Columbus Junction; 3, Allen Massen, Hardy. Sows (14 shown)—1, Max Elmore, Fairfield; 2 and 3, Gary Seversiche. Litters (six shown)—1, Gary Seversiche; 2, Max Elmore; 3, Allen Massen.

Yorkshires: Boars (14 shown)—1, Glenn A. Swinton, Nashua; 2, Richard Moench, Humboldt; 3, William Sandquist, Altoona. Sows (24 shown)—1, Glenn A. Swinton; 2, Jim Lein, Graettinger; 3, Gerald F. Kennedy, Humboldt. Litters (11 shown)—1, Glenn A. Swinton; 2, Jim Lein; 3, Gerald F. Kennedy.

School or Chapter Group (12 shown)—1, Vinton FFA, Vinton; 2, Greenville-Rossie; 3, Iowa Falls FFA, Iowa Falls.

Market Barrows

Judges: Ed Helgens, Monticello, Iowa; Carroll Plager, Austin, Minn.; J. C. Hillier, Stillwater, Okla.

Poland China: 180-205 lbs. (26 shown)—1 and 3, Brown & Brown, Hampton; 2, Kelly & Krieger, Dallas Center. 206-250 lbs. (22 entered)—1 and 2, Brown & Brown; 3 Kelly & Krieger. Champion barrow—Brown & Brown; reserve, Brown & Brown.

Duroc: 180-205 lbs. (20 shown)—1 and 2, Willard Klein, Iowa Falls; 3, Robert Ekstrom, Eagle Grove. 206-250 lbs. (20 shown)—1, John Hughes, Iowa City; 2, Fred McKibbin, Rhodes; 3, J. R. Caputo, Marshalltown. Champion barrow—John Hughes; reserve, Willard Klein.

Chester White: 180-205 lbs. (20 shown)—1 and 2, R. Derschild, Eagle Grove; 3, Herbert F. Hoover, Oskaloosa. 206-250 lbs. (20 shown)—D. Flunerbelt, Eagle Grove; 2, Bertha L. Meyer, New Hampton; 3, Williamson Bros., Eagle Grove. Champion barrow—R. Derschild; reserve R. Derschild.

Spotted Poland China: 180-205 lbs. (20 shown)—1, Harlan Ritchie, Albert City; 2, Charles Hawbaker, Dallas Center; 3, A. J. Anderson & Sons, Kellogg. 206-250 lbs. (15 shown)—1, Hawbaker; 2, Anderson & Sons; 3, Donald O. Engh, Kanawha. Champion barrow—Charles Hawbaker; reserve, Harlan Ritchie.

Hampshire: 180-205 lbs. (25 shown) 1, C. T. Keen & Sons, Le Grande; 2, Roger Morgan, Eagle Grove; 3, Lettow Bros., Alden. 206-250 lbs. (29 shown) 1, Dee Bros., State Center; 2, Roger Morgan; 3, Lettow Bros. Champion barrow—Dee Bros.; reserve, C. T. Keen & Sons.

Berkshire: 180-205 lbs. (19 shown)—1, Dale Norem, Eagle Grove; 2 and 3, Milo V. Wolrab, Mt. Vernon. 206-250 lbs. (seven shown)—1, Bonnie Acres Farm, Holstein; 2 and 3, E. O. Herbold & Sons, Colfax. Champion barrow—Dale Norem; reserve, Milo V. Wolrab.

Hereford: 180-205 lbs. (eight shown)—1, Harris Sellers, Jr., Chariton; 2 and 3, Wendell Butler, Lacona. 206-250 lbs. (five shown)—1 and 2, Wendell Butler; 3, Harris Sellers, Jr. Champion barrow—Harris Sellers, Jr.; reserve, Wendell Butler.

Tamworth: 180-205 lbs. (19 shown)—1, Caputo & Paul, Marshalltown; 2, Joe Gunson, Blockton; 3, Ed Masteller, Independence. 206-250 lbs. (12 shown)—1, Joe Paul, Dallas Center; 2 and 3, Caputo & Paul. Champion barrow—Caputo & Paul; reserve, Joe Paul.

Yorkshire: 180-205 lbs. (12 shown)—1, Paul Jones, Bedford; 2, Kelly & Krieger, Dallas Center; 3, Gerald F. Kennedy & Sons, Humboldt. 206-250 lbs. (nine shown)—1 and 2, Kelly & Krieger; 3, Henderson Farm, Coin. Champion barrow—Kelly & Krieger; reserve, Paul Jones.

Crossbreeds and grades: 180-205 lbs. (34 shown)—1, Kelly & Krieger, Dallas Center; 2, David Stevens, Northwood; 3, LeRoy Jones, Clarion. 206-250 lbs.—1, Kelly & Krieger. Champion barrow—Kelly & Krieger; reserve, Kelly & Krieger.

Champions: 180-205 lbs.—C. T. Keen & Sons, Le Grande, on Hampshire; reserve, Brown & Brown, Hampton, on Poland China. 206-1250 lbs.—Brown & Brown on Poland China; reserve, Dee Bros., State Center, on Hampshire. **Grand Champion barrow** — Brown & Brown on heavyweight Poland China; reserve, Dee Bros. on heavyweight Hampshire.

4-H Breeding Pigs

Judges: A. L. Anderson, Ames, and J. C. Hillier, Stillwater, Okla.

Poland China: Boars (10 shown)—1, Elliott Partridge, Collins; 2, Bernard Babe, Pisgah; 3, Roger Minnier, Dumont. Sows (20 shown)—1, Kent Brown, Hampton; 2, E. S. Huinker, Decorah; 2, Roger Minnier, Dumont. Litters (five shown)—1, Kent Brown; 2, Roger Minnier; 3, Joel McClure, State Center. County groups (none shown).

Durocs: Boars (19 shown)—1, Alan Duea, Thornton; 2, David Duea, Roland; 3, Bernard Bartholow, Washington. Sows (39 shown)—1, David Duea; 2, Duane Wente, Waverly; 3, Alan Duea. Litters (20 shown)—1, David Duea; 2, L. A. Younge & Sons; 3, Keith Hora, Washington County groups (three shown)—1, Washington; 2, Cerro Gordo; 3, Marshall.

Chester Whites: Boars (seven shown)—1, Bill Dilcher, Dysart; 2, Glenadean Van Zee, Pleasantville; 3, Barbara Kopel. Sows (13 shown)—1 and 2, Bill Dilcher; 3, Robert Eggers, State Center. Litters (six shown)—1, Bill Dilcher; 2, Robert Eggers; 3, Barbara Kopel. County groups (one shown)—1, Marshall.

Spotted Poland Chinas: Boars (10 shown)—1, Richard Houge, Slater; 2, Bill Murphy, Atlantic; 3, Daryl Neitderhisar, Tiffin. Sows (20 shown)—1, Daryl Neitderhisar; 2, Bill Murphy; 3, Hubert Churchill, Prairie City. Litters (10 shown)—1, Daryl Neitderhisar; 2, Bill Murphy; 3, Richard Houge. County groups (none shown).

Hampshires: Boars (17 shown)—1, Larry Heaberlin, Ackworth; 2, Larry Witte, State Center; 3, Edward Lightbody, Thornton. Sows (20 shown)—1, Mike Henderson, Coin; 2, Earle Knudson, Marshalltown; 3, Jack Fitz, Melbourne. Litters (15 shown)—1, Mike Henderson; 2, Jack Fitz; 3, Kent Ferguson. County groups (one shown)—1, Marshall.

Berkshires: Boars (four shown)—1, Jim Herbold, Colfax; 2, Clark Conover, Holstein; 3, Byron Bryant, Zearing. Sows (eight shown)—1, Byron Bryant; 2, Ronald Paaske, Bettendorf; 3, Jim Herbold. Litters (four shown)—1, Jim Herbold; 2, Byron Bryant; 3, Clark Conover. County groups (none shown).

Tamworths: Boars (six shown)—1, Wayne Schneider, Muscatine; 2, June Heffelfinger, Indianola; 3, Ray Robertson, Mediaoplis. Sows (11 shown)—1, Ray Robertson; 2 and 3, Wayne Schneider. Litters (five shown)—1, Wayne Schneider; 2, Ray Robertson; 3, Dale Draper. County groups (none shown).

Yorkshires: Boars (15 shown)—1, Sandra Ballou, Olin; 2, Dearl King, Blencoe; 3, Harold Nichol, Jr., Melbourne. Sows (15 shown)—1, Sandra Ballou; 2 and 3, Harold Nichol, Jr. Litters (six shown)—1, Harold Nichol, Jr.; 2, Sandra Ballou; 3, Mike Henderson, Coin. County groups (none shown).

4-H Market Pigs

Judges: Lou Thompson, Waterloo; Leonard Duman, Davenport; and Dale Williams, Ames.

Poland Chinas: Market pigs (16 shown)—Blue ribbons: Bernard Babe, Pisgah (2); Kent Brown, Hampton (2); Robert Freil, Alexander (2); Janet Copeland, Bouton; David Huinker, Decorah. Champion—Kent Brown; reserve, Kent Brown. Pens (eight shown)—1, Kent Brown; 2, Bernard Babe; 3, Joel McClure, State Center.

Durocs: Market pigs (13 shown)—Blue ribbons: Bill Durian, Wellman (2); Keith Hora, Washington; John R. Hughes, Iowa City (2); Ralph Palmer, Gilman. Champion—John R. Hughes; reserve, Bill Durian. Pen (six shown)—1, John R. Hughes; 2, Bill Durian; 3, Keith Hora.

Chester Whites: Market pigs (11 shown)—Blue ribbons: Ray Pierce, Waterloo (2); Lyman Walker, Kellerton (2); Otto Wendhausen, Jr., LeClaire; L. Anderson, Muscatine. Champion—Ray Pierce; reserve—L. Anderson. Pens (five shown)—1, Ray Pierce; 2, Lyman Walker; 3, Bill Dilcher, Vinton.

Hampshires: Market pigs (25 shown) Blue ribbons: Kenneth Greiner, Keota; Mike Henderson, Coin; Dean Riemenschneider, Pierson (2); Paul Schwartz, Walnut (2); Ronald Smith, Adel; Larry Witte, State Center; Shirley Man, Dallas county. Champion—Larry Witte; reserve—Dean Riemenschneider. Pens (eight shown)—1, Larry Witte; 2, Dean Riemenschneider; 3, Marvin Shirley, Dallas county.

Berkshires: Market pigs (seven shown)—Blue ribbons: Gene Ehlert, Holstein (2); Jim Herbold, Colfax (2). Champion—Jim Herbold; reserve—Gene Ehlert. Pens (three shown)—1, Jim Herbold; 2, Gene Ehlert; 3, Darrell Engstrom, Hamilton county.

Yorkshires: Market pigs (40 shown)—Blue ribbons: Garold Bochart, Jr., Bridgewater; Jerry Hansen, Perry; LeRoy Jones, Goldfield (2); Paul Jones, Bedford (2); Paul Pettinger, Creston. Harold Wurst, Wyoming. Champion—Paul Jones; reserve—LeRoy Jones. Pens (14 shown)—1, LeRoy Jones; 2, Paul Jones; 3, Jerry Hansen.

Other breeds or crossbreeds: Market pigs—Blue ribbons: Ronald Bender, Perry; Rodney Fee, Pleasantville; Eldon Pigsley, Woodbine; Jack Sheaffer, Adel; Reva Sheaffer, Adel; Janice Vander Wal, Pella (2); Norman Van Zante, Reasnor (2). Champion—Reva Sheaffer; reserve—Eldon Pigsley. Pens (12 shown)—1, Eldon Pigsley; 2, Norman Van Zante; 3, Mike Bienson, State Center.

Grand champion market pig—Larry Witte, State Center; reserve—Kent Brown, Hampton.

Champion pen—Kent Brown, Hampton; reserve—Larry Witte, State Center.

County groups (six shown)—1, Dallas; 2, Marshall; 3, Franklin.

Market Hitters (10 shown)—1, Norman Van Zante, Reasnor; 2, Mike Bienson, State Center; 3, Eldon Pigsley, Woodbine.

FFA Market Pigs

Judges: Bernard Ebbing, Waterloo; Russell G. Plager, Ottumwa; Robert Gadd, Fort Dodge.

Poland Chinas: Market pigs: Blue ribbons—Robert Brisbin, Eagle Grove (2); Harvey Hansen, Eagle Grove (2); Dave Mishler, Eagle Grove (2); Harlan Ritchie, Albert City; Jim Schultz, Parkersburg (2); Lee Schulze, Vinton; Leroy Watts, Clarion (2); Gail and Neville Williams, Iowa Falls (2). Champion—Robert Brisbin; reserve, Leroy Watts. Pens (eight shown)—1, Leroy Watts; 2, Robert Brisbin; 3, Jim Schultz.

Durocs: Market pigs: Blue ribbons—Robert Ekstrom, Eagle Grove (2); Lloyd Flook, Grand Junction (2); Gordon Geriken, Vinton(2); Donald Jeanblanc, Eagle Grove (2); Marlin Liljedahl, Northwood (2); Wayne Oler, Alden; Eugene Tweit, Eagle Grove (2); Stanley Whipple, Prole (2). Champion—Bob Ekstrom; reserve, Bob Ekstrom. Pens (nine shown)—1, Bob Ekstrom; 2, Marlin Liljedahl; 3, Lloyd Flook.

Chester Whites: Market pigs: Blue ribbons—Raymond Cantonwine, Vinton; Ronald Derschied, Eagle Grove; Lyle Faulkner, Eagle Grove (2); Don Flumerfelt, Eagle Grove (2); Kenneth Hamer, Eagle Grove; Harlan Ritchie, Albert City (2); Eugene Stockdale, Eagle Grove. Champion — Ronald Derschied; reserve, Kenneth Hamer. Pens (10 shown)—1, Ronald Derschied; 2, Don Flumerfelt; 3, Eugene Stockdale.

Spotted Poland China: Market pigs: Blue ribbons—Harlan Ritchie, Albert City (2); Gail and Neville Williams, Iowa Falls. Champion—Harlan Ritchie; reserve, Gail and Neville Williams. Pens (six shown)—1 and 2, Lee Heins; 3, Lonnie Harris.

Hampshires: Market pigs: Blue ribbons—Gilbert Campbell, Eagle Grove (2); Charles Cox, Grand Junction (2); Dean DeWolf, Brighton (2); John Kuey, Vinton (2); Roger Inman, Vinton; Richard Kueny, Vinton (2); Roger Morgan, Eagle Grove (2); Gary Moubry, Vinton; Ronald Nelson, Hardy; Dean Nervig, Hardy (2); Richard Phillips, Linn Grove; Lowell Stacy, Brighton. Champion—Roger Morgan; reserve, Dean Nervig. Pens (13 shown)—1, Roger Morgan; 2, Dean Nervig; 3, Richard Kueny.

Berkshires: Market pigs: Blue ribbons—Arlyn McHenry, Northwood (2); Richard Moench, Humboldt (2); Dale Norem, Eagle Grove (2); Gary Riles, Blairsburg (2); Jim Scheuerman, Grand Junction (2); Harlan Sime, Northwood (2). Champion—Dale Norem; reserve, Nale Norem. Pens (nine shown)—1, Dale Norem; 2, Kenneth Logeman; 3, Harlan Sime.

Tamworths: Market pigs: Blue ribbons—Bill Kray, Vinton; Richard Mann, Vinton; Ed Masteller, Independence (2). Champion—Ed Masteller, Independence; reserve, Ed Masteller. Pens (three shown)—1, Ed Masteller; 2 and 3, Bill Kray.

Yorkshires: Market pigs: Blue ribbons—Wayne Emmett, Ogden; Tom Fisher, Eagle Grove (2); Kent Groves, Eagle Grove (2); Gerald F. Kennedy, Humboldt (2); Richard McNickle, Iowa Falls (2); Gerold Schulze, Humboldt; David Stevens, Northwood (2); Kenneth Trousch, Eagle Grove (2). Champion—Tom Fisher; reserve, Kent Groves. Pens (seven shown)—1, Kent Groves; 2, Wayne Emmett; 3, Richard McNickle.

Other breeds or crossbreds: Market pigs: 1, Leo and Harry Kirk, Grand Junction; 2, Ed Masteller, Independence. Champion—Leo and Harry Kirk; reserve, Ed Masteller. Pens—1, Ed Masteller; 2, Leo and Harry Kirk.

Grand champion market pig—Harlan Ritchie (Chester White); reserve, Dale Norem (Berkshire). Champion market pen—Ronald Derschied (Chester White); reserve, Roger Morgan (Hampshires).

School or Chapter Groups: Market pigs (12 shown)—1 and 2, Northwood FFA; 3 and 4, Eagle Grove FFA; 5, Grand Junction FFA; 6 and 7, Humboldt High School; 8, Vinton FFA; 9, Iowa Falls FFA. Market Litter (six shown)—1, Gerald F. Kennedy, Humboldt; 2, Ed Masteller; 3, Jim Schultz; 4, Wayne Emmett; 5, Lee Heins; 6, Lloyd Flook.

Cattle

POLLED SHORTHORNS

Judges: John B. Hudson, Bethesda, Md.

Exhibitors (from Iowa unless otherwise indicated): Alpine Farms, Lexington, Mo.; Bar L Polled Shorthorns, Cleveland, Tex.; L. C. Bolson, Decorah; Carona Farms, DeKalb, Ill.; Wayne Carr, Cincinnati; Circle S Farms, Rio, Ill.; LeRoy E. Durr, Grinnell; Dale A. Ferguson, Laurens; Albert Hultine & Sons, Saronville, Nebr.; Otto Johnson & Sons, Lohrville; Lou Kennedy & Sons, Lewis; J. R. Kenner, Hebron, Nebr.; Lou Laughlin, Imogene; Lynnwood Farm, Carmel, Ind.; Ralph V. Phillips, Villisca; Lewis W. Thieman, Concordia, Mo.; G. W. Zinnel & Sons, Rockwell City.

Bulls: Two year olds (four shown)—1, Carona; 2, Zinnel & Sons; 3, Kennedy & Sons. Senior yearlings (three shown)—1, Carona; 2 and 3, Bolson. Junior yearlings (eight shown)—1, Alpine; 2, Circle S; 3, Lynnwood. Summer yearlings (14 shown)—1 and 2, Lynnwood; 3, Kenner. Senior calves (15 shown)—1, Carona; 2, Thieman; 3, Johnson. Junior calves (five shown)—1, Lynnwood; 2, Alpine; 3, Zinnel. Senior champion bull—Carona on Carona Bard (senior yearling); reserve, Carona on Carona Standfast (two year old). Junior champion bull—Carona on Carona Clarion (senior calf); reserve, Thieman on TPS Coronet Commander 5th (senior calf). **Grand champion bull**—Carona on Carona Clarion; reserve, Thieman

(Continued on page 95)

In the Hampshire show at the State Fair, Duncan & Smylie, Columbus Junction, won the reserve premier sire award.

Champion purebred Shorthorn heifer exhibited at the Iowa State Fair by Roger Applegate of Pottawattamie county, Iowa.

(Continued from page 94)

on TPS Coronet Commander 5th. Three bulls (12 shown)—1, Carona; 2 and 3, Lynnwood. Two bulls (13 shown)—1, Carona; 2, Thieman; 3, Lynnwood.

Females: Two year olds (six shown)—1 and 3, Thieman; 2, Bar L. Senior yearlings (10 shown)—1, Lynnwood; 2, Bar L; 3, Thieman. Junior yearlings (10 shown)—1, Laughlin; 2, Kenner; 3, Lynnwood. Summer yearlings (14 shown)—1, Bar L; 2, Thieman; 3, Kenner. Senior calves (15 shown)—1 and 3, Lynnwood; 2, Thieman. Junior calves (five shown)—1, Lynnwood; 2, Hultine & Sons; 3, Bolson. Senior champion female—Thieman on Queen of Hearts 18th (two year old); reserve, Lynnwood on Lynnwood Patience (senior yearling). Junior champion female—Lynnwood on Lynnwood Secret 2nd (senior calf); reserve, Thieman on Lavendar Coronita 21st (senior calf). **Grand champion female**—Thieman on Queen of Hearts 18th; reserve, Lynnwood on Lynnwood Secret 2nd. Two females (15 shown)—1 and 3, Thieman; 2, Lynnwood.

Groups: Get of sire (eight shown)—1, Lynnwood; 2, Thieman; 3, Kenner. Junior get of sire (six shown)—1, Thieman; 2, Lynnwood; 3, Alpine. Pair of yearlings (11 shown)—1 and 3, Lynnwood; 2, Kenner. Pair of calves (11 shown)—1, Thieman; 2, Lynnwood; 3, Carona.

SHORTHORNS

Judge: Reford W. Gardhouse, Milton, Ontario, Canada.

Exhibitors (from Iowa unless otherwise indicated): W. C. Anderson, West Liberty; Bar L, Polled Shorthorns, Cleveland, Tex.; Bill Belknap, Mediapolis; Theo Bergquist & Son, Somers; L. C. Bolson, Decorah; Braywood Farms, Oskaloosa; Ann Brunsman, Earlham; Lloyd F. Burr & Son, Lone Tree; C. M. Caraway & Sons, DeLeon, Tex.; J. A. Collier, Fletcher, Okla.; Cowman Stock Farms, Prairie City; Roger Dudden, Dike; Edelynn Farms, Wilson, Ill.; Lanny Ross German, State Center; Wayne Greiman, Garner; Held Brothers, Hinton; W. Joel Hopkins, Granville, Ill.; Gilbert Kardel, Walcott; LaJoy Stock Farm, Harlan; Tip Lucas & Son, Lenox; Marellbar Farms, Libertyville, Ill.; Mathers Brothers, Mason City, Ill.; Hubert W. Miller & Son, Arbela, Mo.; Ruby Nelson & J. W. Freel, Pleasantville; Nyswanger Bros., Indianola; T. D. Nyswanger & Son, Indianola; Oakdale Farms, Granger, Mo.; Donald L. Obrecht & Son, Harlan; Donna Jean Obrecht, Harlan; Sharon Kay Paul, Osceola; Penningroth Brothers, Wellman; Henry Rathous, Moorland; C. L. Rees & Sons, Pleasantville; Carl L. Retzlaff & Son, Walton, Nebr.; J. Kenneth Roach, Rock Rapids; F. Rothlisberger & Son, Elgin; C. E. Stewart & Sons, Rose Hill; George Struve & Sons, Manning; Lewis W. Thieman, Concordia, Mo. Vernon D. Uehling, Ankeny; Larry Wiebke, Greene; Wm. Wiebke & Son, Greene.

Bulls: Two year olds (four shown)—1, Mathers; 2, Collier; 3, Held. Senior yearlings (eight shown)—1, Retzlaff; 2, Caraway; 3, Struve. Junior yearlings (14 shown)—1, Mathers; 2, Marellbar; 3, Anderson. Summer yearlings (21 shown)—1 and 2, Mathers; 3, Retzlaff. Senior calves (19 shown)—1, Collier; 2, Bergquist; 3, Edellyn. Junior calves (13 shown)—1, Mathers; 2, Caraway; 3, Hopkins. Senior champion bull—Mathers on Leveldale Caesar (two year old); reserve, Collier on Hallwood Magna Mercury 7th (two year old). Junior champion—Mathers on Leveldale Critic (junior yearling); reserve, Collier on Hallwood Seven Eleven (senior calf). **Grand champion bull**—Mathers on Leveldale Critic; reserve, Collier on Hallwood Seven Eleven. Three bulls (15 shown)—1, Mathers, 2, Collier; 3, Anderson. Two bulls (18 shown)—1 and 3, Mathers; 2, Collier.

Females: Two year olds (three shown)—1, Mathers; 2, Stewart; 3, Collier. Senior yearlings (17 shown)—1, Struve; 2, Mathers; 3, Thieman. Junior yearlings (24 shown)—1, Struve; 2, Anderson; 3, Marellbar. Summer yearlings (25 shown)—1, Mathers; 2, Edellyn; 3, Rothlisberger. Senior calves (23 shown)—1, Anderson; 2, Struve; 3, Marellbar. Junior calves (15 shown)—1, Marellbar; 2, Collier; 3, Caraway. Senior champion female—Mathers on Leveldale Augusta Lass (two year old); reserve, Struve on Lane View Veronica (senior yearling). Junior champion female—Mathers on Leveldale Blythesome 8th (summer yearling); reserve, Edellyn on Edellyn Dorthy 34th (summer yearling). **Grand champion female**—Mathers on Leveldale Blythesome 8th; reserve, Edellyn on Edellyn Dorthy 34th. Two females (16 shown)—1, Mathers; 2, Struve; 3, Edellyn.

Groups: Get of sire (15 shown)—1, Anderson; 2, Mathers; 3, Marellbar. Junior get of sire (12 shown)—1, Collier; 2, Marellbar; 3, Caraway. Pair of yearlings (15 shown)—1 and 3, Mathers; 2, Anderson. Pair of calves (19 shown)—1, Collier; 2, Mathers; 3, Anderson.

HEREFORDS

Judge: Herman R. Purdy, State College, Pa.

Exhibitors (from Iowa unless otherwise indicated): Adams Bros. and Co., Odebolt; Amana Society Herefords, High; Martha Jane Anderson, Knoxville; Amos W. Asmus, Audubon; Harold L. Asmus, Audubon; Atha Hereford Farm, Lees Summit, Mo.; Barret Hereford Ranch, Camanche, Tex.; Kathy Beale, Buckingham; Henry A. Bendorf, High; Bennett Farms, Argenta, Ill.; C. Bar M. Hereford Ranch, O'Neill, Nebr.; Clampitt Hereford Farms, New Providence; Ray Dittmer, Lacona; R. G. Geddes & Sons, Maxwell; Glen Ellen Farms, Steelville, Mo.; Halbert & Fawcett, Miller, Mo.; Harold Handsaker & Sons, Nevada; Gene Heaberlin, Pleasantville; Hillandale Farm, Muscatine; Hillcrest Farms, Pocahontas, Ill.; Grover Jelden, Everly; Jimmy Johnson, Council Bluffs; Kavanaugh-Purdy Hereford Ranch, Oklahoma City, Okla.; Krug Brothers, Atkins; Orlin Lein & Son, Kelley; C. C. Long & Son, Corydon; Kenneth McLeod, St. Charles; Marzen Hereford Farms, Marble Rock; Meredith Farms, Des Moines; Alvin Meyer, Lone Tree; Rosemary and Priscilla Meyer, Melbourne; A. J. Minish & Son, Dysart; Gary L. Minish, Dysart; N. B. Herefords, Roseland, Nebr.; Margery Ann Peterson, Liscomb; Pierson Hereford Farms, Dickens; Premier Hereford Farms, Kansas City, Kans.; Barbara Schulte, Norway; John S. Schulte, Norway; H. P. N. Small & Son, Letts; Wagler Hereford Farms, Pulaski; Westhaven Place, Denison; White Gates Hereford Farm, Tipton.

Bulls: Two year olds (nine shown)—1, Hillcrest; 2, Westhaven; 3, Jelden. Senior yearlings (11 shown)—1, Barret; 2, Meredith; 3, Hillandale. Junior yearlings (23 shown)—1, Adams Bros.; 2, Halbert & Fawcett; 3, Barret. Summer yearlings (25 shown)—1, Meredith; 2, Halbert & Fawcett; 3, Kava-

(Continued on page 96)

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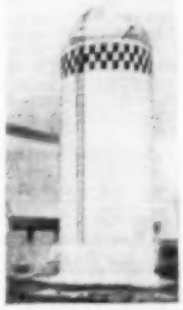

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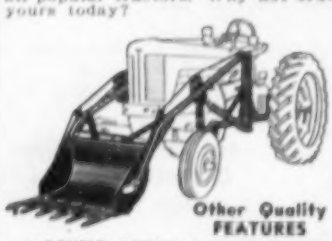

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Grand champion Angus female at the 1955 Iowa State Fair was Arlavon Empress 15, shown by Pagemere & Arlavon, Clarinda, Iowa.

Adams Bros. and Co., Odebolt, Iowa, showed the champion Hereford female, ABC Homemaker 28th, at this year's Iowa State Fair.

Champion Polled Shorthorn female of the Iowa State Fair was Queen of Hearts 18th, shown by Lewis W. Thieman, Concordia, Mo.

(Continued from page 95)

naugh-Purdy. Senior calves (19 shown)—1, Barret; 2, N. B. Herefords; 3, Meredith. Junior calves (30 shown)—1 and 2, C Bar M; 3, White Gates. **Champion bull**—Barret on WB Royal Mixer (senior yearling); reserve, Meredith on MF Baca Baron 35th (summer yearling). Three bulls (20 shown)—1, Barret; 2, Meredith; 3, Halbert & Fawcett. Two bulls (20 shown)—1, Meredith; 2, Barret; 3, Halbert & Fawcett.

Females: Two year olds (10 shown)—1, Adams Bros.; 2, Hillcrest; 3, Pierson. Senior yearling (13 shown)—1, Adams Bros.; 2, Kavanaugh-Purdy; 3, Barret. Junior yearling (18 shown)—1, Kavanaugh-Purdy; 2, Minish & Sons; 3, Adams Bros. Summer yearling (23 shown)—1, Barret; 2, Hillcrest; 3, Minish & Sons. Senior calves (20 shown)—1, Premier; 2, Barret; 3, Kavanaugh-Purdy. Junior calves (17 shown)—1, Barret; 2, Halbert & Fawcett; 3, Hillcrest. **Champion female**—Adams Bros. on ABC Homemaker 28th (senior yearling); reserve, Barret on WB Larry Ann 41 (summer yearling). Two females (16 shown)—1, Adams Bros.; 2, Barret; 3, Kavanaugh-Purdy.

Groups: Get of sire (18 shown)—1, Barret; 2, Kavanaugh-Purdy; 3, Halbert & Fawcett. Pair yearlings (17 shown)—1, Kavanaugh-Purdy; 2, Barret; 3, Adams Bros. Pair calves (18 shown)—1, Barret; 2, Halbert & Fawcett; 3, C Bar M.

ABERDEEN ANGUS

Judge: Arthur D. Weber, Manhattan, Kans.

Exhibitors (from Iowa unless otherwise indicated): Arnold Angus Farm, Spencer; Bell & Sons, Osceola; F. R. Bennett & Sons, Creston; James Bierstedt, Whittemore; Maurice W. Boney, Storm Lake; O. O. Cashman, Lacona; Dowden & Son, Conrad; G. Eldridge Drury, Galva; Eiltonier Angus Farms, Tipton; El Jon Farm, Rose Hill; Escher & Laird, Ankeny; Dwight M. Garner, Ida Grove; Glen Don Angus Farm, Davenport; Glen Ru Farm, Indianola; Glengarry Farm, Mount Carroll, Ill.; Re xHarmon & Sons, Creston; Johnson Brothers, Ida Grove; Enoch & Bob Johnson, Arthur; Kentridge, Muscatine; Eugene Knop, Charter Oak; Fred Knop & Sons, Charter Oak; Lador Farm, Scranton; Lazear Angus Farms, Charlton; Harry A. Leonard & Sons, Perry; Elda Little & Son, Somers; Maas Bros., Remsen; Harold Magg, Farrar; Barbara Maxwell, Hartford; Meredith Angus, Indianola; Faye E. Mugge, Cleghorn; Nau's Angus Farm, Mt. Pleasant; Oxley Bros., Marion; Pagemere & Arlavon, Clarinda; John Rooks, Eldora; Rosengift Stock Farm, Kelley; Ralph L. Smith, Chillicothe, Mo.; Spring Valley Farms, Bayard; Sunset Knoll Farm, Ames; Welco Feed Mfg. Co. Inc., Spencer; D. C. Williams & Sons, Jefferson; Wilton Farms, Davenport.

Bulls: Two year olds (three shown)—1, Wilton; 2, Sunset Knoll; 3, Cashman. Senior yearlings (10 shown)—1, Sunset Knoll; 2, Garner; 3, Pagemere & Arlavon. Junior yearlings (10 shown)—1 and 3, Enoch & Bob Johnson; 2, Eiltonier. Summer yearlings (13 shown)—1, Johnson Bros.; 2, Oxley Bros.; 3, El Jon. Senior calves (13 shown)—1, Glengarry; 2, Spring Valley; 3, Kentridge. Junior calves (five shown)—1, Spring Valley; 2, Dowden & Son; 3, Enoch & Bob Johnson. Senior champion—Wilton on Bandolier 28th of Wilton (two year old); reserve, Sunset Knoll on Westside Eileenmere (senior yearling). Junior champion—Glengarry on Ankonian 32180 (senior calf); reserve, Enoch & Bob Johnson on Wilton Bandolier E & B (junior yearling). **Grand champion bull**—Glengarry on Ankonian 32180; reserve, Wilton on Bandolier 28th of Wilton. Three bulls (seven shown)—1, Wilton; 2, Pagemere & Arlavon; 3, Enoch & Bob Johnson. Two bulls (10 shown)—1, Wilton; 2, Pagemere & Arlavon; 3, Sunset Knoll.

Females: two year olds (nine shown)—1, Wilton; 2, Magg; 3, Nau. Senior yearlings (10 shown)—1, Enoch & Bob Johnson; 2, Johnson Bros.; 3, Sunset Knoll. Junior yearlings (19 shown)—1, Wilton; 2, Enoch & Bob Johnson; 3, Kentridge. Summer yearlings (28 shown)—1, Pagemere & Arlavon; 2, Drury; 3, El Jon. Senior calves (18 shown)—1, Johnson Bros.; 2, Enoch & Bob Johnson; 3, Spring Valley. Junior calves (12 shown)—1, El Jon; 2, Wilton; 3, Enoch & Bob Johnson. Senior champion—Wilton on Blackcap Empress 4th of Wilton (two year old); reserve, Enoch & Bob Johnson on Queen of Ida 26 (senior yearling). Junior champion—Pagemere & Arlavon on Arlavon Empress 1 (summer yearling); reserve, Johnson Bros. on Blueblood Lady 437 of Ida (senior calf). **Grand champion female**—Pagemere & Arlavon on Arlavon Empress 15; reserve, Johnson Bros. on Blueblood Lady 437 of Ida. Pair of females (15 shown)—1, Wilton; 2, Pagemere & Arlavon; 3, Johnson Bros.

Groups: Get of sire (seven shown)—1, Wilton; 2, Johnson Bros.; 3, El Jon. Junior get of sire (four shown)—1, Johnson Bros.; 2, El Jon; 3, Spring Valley. Pair yearlings (nine shown)—1, Enoch & Bob Johnson; 2, Wilton; 3, Johnson Bros. Pair calves (nine shown)—1, Enoch & Bob Johnson; 2, Johnson Bros.; 3, El Jon.

Sheep

Judges: Wilbur N. Renk, Sun Prairie, Wisc. (Hampshire, Suffolks and Southdowns); Glenn Chappell, Green Castle, Mo. (Shropshires, Cheviots, Oxford Downs and Columbias); E. H. Mattingly, St. Louis, Mo. (Montadales); L. M. Kyner, Waterloo, and Gene Steffens, Des Moines, (fat lambs).

Shropshires: Champion ram—W. P. Frederick & Sons, Orient, Iowa; reserve—John Eberspacher, Seward, Nebr. Champion ewe—Noble T. Apple and Daughters, Greenfield, Ind.; reserve—E. H. Rotter, West Point, Iowa.

Hampshires :Champion ram—R. E. Pullins' Sons, Waterloo, Iowa; reserve—Carl Peters & Son, Panora, Iowa. Champion ewe—Pullins' Sons; reserve—Harold and Clarence Meinecke and Sons, Paton, Iowa.

Corriedales: Champion ram—Dewey Harper & Son, Bloomfield, Iowa; reserve—Carl H. Dunbar, Bushnell, Ill. Champion ewe—Livengood Farm, Braddyville, Iowa; reserve—Livengood.

Oxford Downs: Champion ram—R. E. Pullins' Sons, Waterloo; reserve—Pullins' Sons. Champion ewe—Pullins' Sons; reserve—Pullins' Sons.

Cheviots: Champion ram—Walter E. Fassett, Reynolds, Ill.; reserve—Arnold H. Spitzer, Jr., Pleasant Plains, Ill. Champion ewe—Spitzer; reserve—Fassett.

Southdowns: Champion ram—Robert J. Cresap, Seymour, Ill.; reserve, S. H. Stephenson, Winchester, Kan. Champion ewe—Stephenson; reserve—Cresap.

Suffolks: Champion ram—R. B. Warrick & Son, Oskaloosa, Iowa; reserve—Warrick. Champion ewe—Warrick; reserve—Warrick.

Columbias: Champion ram—H. B. Seely & Son, Algona, Iowa; reserve—L. B. Oberhauser, Belmond, Iowa. Champion ewe—Seely; reserve—Seely.

Montadales: Champion ram—Walter Uebele, Jr., Racine, Wisc.; reserve—Uebele. Champion ewe—Uebele; reserve—H. P. Queck, Orient, Iowa.

Shearing contest: Preliminary contest (eight entries)—1, L. H. Moore, Ottumwa; 2, Herbert DeBok, Chariton; 3, Vernon Moore, Moulton. Grand championship (five highest in preliminary trials)—1, Floyd Porter, Bloomfield; 2, Vernon Moore; 3, L. H. Moore.

Sheep dog trials (six entries)—1, Dewey M. Jontz, Runnells; 2, LeRoy Price, Weldon; 3, E. A. Brumley, Des Moines.

4-H Baby Beeves

Judges: Don L. Good, Manhattan, Kans. (Herefords); William McCone, Brookings, So. Dak. (Shorthorns); J. T. Frost, Lafayette, Ind. (Angus); P. S. Shearer, Ames, Iowa, and W. J. Probert, Cedar Rapids, Iowa (mixed county groups and champions).

Produce of former 4-H beef heifers: Herefords (eight shown)—1, Joyce Sheriff, Orient; 2, Gene Heaberlin, Pleasantville; 3, Jack Fitzgerald, Melbourne. Shorthorns (six shown)—1, Donna Obrecht, Harlan; 2, Kenneth Cowman, Prairie City; 3, Jack Dooley, Adel. Aberdeen Angus (12 shown)—1, Gary Williams, Jefferson; 2, Deane Vinen, Nichols; 3, Louis R. Bennet, Creston.

Herefords: 628-886 pounds (47 shown)—1, Elizabeth Adams, Odebolt; 2, Gary Minish, Dysart; 3, Roland Kroyman, Clinton. 887 to 939 pounds (46 shown)—1, Bob Kidney, Scranton; 2, Margot Adams, Odebolt; 3, Gary Minish, Dysart. 940-984 pounds—1, Donald Miller, Dysart; 2, James Murray, Oxford Junction; 3, Michael Dean, Winterset. 986-1050 pounds (45 shown)—1, Elizabeth Tysdahl, Radcliffe; 2, Wendell Jones, Van Wert; 3, John Kline, Conrad. 1054-1233 pounds (47 shown)—1, Byron James Smith, Corydon; 2, Jim Fitzgerald, Melbourne; 3, Everett Harms, Alden. **Champion Hereford**—Bob Kidney; reserve, Margot Adams, Odebolt.

Shorthorns: 785-894 lbs. (25 shown)—1, Larry Kerr, Wapello; 2, Nyswonger Bros., Indianola; 3, Edwin Geest, Walcott. 898-954 pounds (27 shown)—1, Pat Johnson, Oxford; 2, Sherman Berg, Osage; 3, Berghoefer Bros., Hampton. 955-1016 pounds (24 shown)—1, Roy Black, Nevada; 2, Dale Schlueter, Durant; 3, Donna Horr, Stanwood. 1015-1183 pounds (25 shown)—1, Craig Davis, Oakland; 2, Betty Trenary, Pocahontas; 3, Linda Yorkham, Keokuk. **Champion Shorthorn**—Craig Davis; reserve, Betty Trenary.

Angus: 685-832 pounds (25 shown)—1, Larry Horr, Stanwood; 2, Rita Redfern, Yarmouth; 3, Harold Smith, Hedrick. 835-897 pounds (49 shown)—1, James McMullin, Batavia; 2, Carl West, Altoona; 3, Faye Mugge, Cleghorn. 893-950 pounds (48 shown)—1, James Bierstedt, Whittemore; 2, L. John Brown, Rose Hill; 3, Gary Williams, Jefferson. 952-1014 pounds—1, Faye Mugge, Cleghorn; 2, Keith Lazear, Chariton; 3, Donna Bollman, Pulaski. 1015-1124 pounds (47 shown)—1, Rodney Brannen, Muscatine; 2, Charles Wood, Spencer; 3, Donald Pretz, Columbus Junction. **Champion Angus** — Rodney Brannen; reserve, Charles Wood.

Grand champion baby beef—Bob Kidney, Scranton, on Hereford; reserve, Rodney Brannen, Muscatine, on Angus.

County groups: Hereford (15 shown)—1, Marion; 2, Hardin; 3, Madison. Shorthorn (10 shown)—1, Muscatine; 2, Keokuk; 3, Floyd. Angus—1, Mahaska; 2, Marshall; 3, Muscatine. Mixed county groups (22 shown)—1, Benton; 2, Adair; 3, Cedar.

Dairy Cattle

BROWN SWISS

Judge: E. N. Hansen, Carry, Ill.

Exhibitors (from Iowa unless otherwise indicated): R. D. Andrews, Eldora; Rodney Brannen, Muscatine; Ralph Bright, Eldora; Brown Swiss Canton No. 2, Eldora; Roy Cairriker, Winterset; Donald Dadisman, Manly; G. A. Dadisman, Manly; Dannen Research Farm, St. Joseph, Mo.; J. L. Hiemstra & Son, Prairie City; Maridee Hunter, Gowrie; Clarence Lange, Eldora; Barbara Jo Lee, Grinnell; Loretta Lillie, Dexter; Clyde Monson & Son, Gowrie; Wayne Norris, Eldora; George W. Opperman, Manning; Ivan L. Opperman, Manning; Marvin Telleen, Gowrie; Carl Van Houweling & Son, Prairie City; John Vernon, Perry; Wendell Butson, Eldora; Cynthia & LaVaughn Wilcox, Guernsey; LaVaughn Wilcox, Guernsey; Lannis & LaVaughn Wilcox, Guernsey; Lemuel Womacks, Waukee.

Bulls: Calves (nine shown)—1, George W. Opperman; 2, Bright; 3, Opperman. Junior yearlings (six shown)—1, Wilcox; 2 and 3, Bright. Senior yearlings (two shown)—1, Butson; 2, G. A. Dadisman. Two year olds (three shown—1, Monson & Son; 2, Lange; 3, G. A. Dadisman. Aged (one shown)—1, Bright. Senior champion bull—Bright on Hycrest Governor (aged). Junior champion bull—Butson on Butson's Charlie. **Grand champion bull**—Bright on Hycrest Governor.

Females: Cows judged on udder (16 shown)—1, Dannen Research Farm; 2 and 3, Monson & Son. Calves (24 shown)—1, Lange, 2, Lillie; 3, Monson & Son. Junior yearlings (13 shown)—1, Dan-

(Continued on page 97)

Treasure Acres Farms, Blairsburg, Iowa, showed the grand champion Hampshire boar at the State Fair.

Reserve grand champion Angus female at the Iowa State Fair was Blue Blood Lady 437 of Ida, shown by Johnson Bros., Ida Grove, Iowa.

Reserve champion Hereford bull at the 1955 Iowa State Fair was MF Baca Baron 35th owned by Meredith Farms, Des Moines, Iowa.

Glengarry Farms, Mt. Carroll, Ill., showed the grand champion Angus bull, Ankonian 32180, at the Iowa State Fair.

(Continued from page 96)

nen Research Farm; 2, Telleen; 3, Lange. Senior yearlings (12 shown)—1, 2 and 3, Bright. Two year olds (10 shown)—1, Bright; 2, Monson & Son; 3, Ivan L. Opperman. Three year olds (10 shown)—1, Monson & Son; 2, Bright; 3, Ivan L. Opperman. Four year olds (8 shown)—1, Bright; 2 and 3, Monson & Son. Aged (15 shown)—1, Monson & Son; 2 and 3, Dannen Research Farm. Senior champion female—Monson & Son on Cedar Valley Ju D. (aged). Junior champion female—Bright on Bright's S. Melinda (senior yearling). **Grand champion cow**—Monson & Son on Cedar Valley Ju D.; reserve, Bright on Bright's M. Faith (four year old). Premier breeder—Bright. Premier exhibitor—Bright.

Groups: Dairy herd (five shown)—1, Monson & Son; 2, Bright; 3, Dannen Research Farm. Best three females (seven shown)—1, Monson & Son; 2, Dannen Research Farm; 3, Bright. Get of sire (five shown)—1, Dannen Research Farm; 2, Bright; 3, Monson & Son. Junior get of sire (seven shown)—1, Bright; 2, Dannen Research Farm; 3, Monson & Son. Produce of dam (11 shown)—1 and 2, Dannen Research Farm; 3, Monson & Son. Iowa District Herd (3 shown)—1, Canton No. 3; 2, Canton No. 2; 3, Canton No. 8

GUERNSEY

Judge: William McKerrow, Pewaukee, Wisconsin.

Exhibitors (from Iowa unless otherwise indicated): Richard L. Beebe, Humboldt; Bonnie Novel Guernseys, Washington; Bonnie Vista Guernsey Farm, Mason City; W. H. Bosworth & Son, Algona; Charmae Guernsey Farm, Clear Lake; Duwayne Doty, Council Bluffs; C. G. Good & Son, Ogden; Groesbeck's Guernsey, Charles City; Guernseys, Dist. No. 5, Northwood; Elizabeth Ann Harper, Muscatine; Paul Houck, Radcliffe; Merriel Johnson, Indianola; Harry & Robert H. Lage, Davenport; Mar-Bon Guernsey Farm, Iowa Falls; Meadow Brook Guernsey Farm, Bode; Mel-Dor Guernsey Farm, Galt; Oakwood Guernsey Farm, Algona; Lowell Onstot & Son, Indianola; Leo H. Orth & Sons, Waverly; Prairie Lodge Guernsey Farm, Northwood; Roberts Dairy Co., Elkhorn, Nebr.; Rosebud Farm, Polk City; Raymond H. Vogt & Sons, Haverhill; West Star Guernsey Farm, Alexander; Willow Drive Guernsey Farm, Rudd; R. D. Wilson, St. Charles; Dennis & Roger Woodruff, Indianola; LeRoy Woodruff, Indianola; Wynola Guernsey Farm, Indianola.

Bulls: Calves (10 shown)—1, Good & Son; 2, Woodruff; 3, Mar-Bon Guernsey Farm. Junior yearling (six shown)—1, Roberts Dairy Co.; 2, Groesbeck's Guernsey Farm; 3, Rosebud Farm. Senior yearlings (two shown)—1, Wynola Guernsey Farm; 2, Woodruff. Two year olds (three shown)—1, Vogt & Sons; 2, Wynola Guernsey Farm; 3, Roberts Dairy Co. Aged (seven shown—1, Roberts Dairy Co.; 2, Harry & Robert H. Lage; 3, Woodruff. Senior champion bull—Roberts Dairy Co. on Meadowbrooks Valiant's King (aged). Junior champion bull—Good & Son on Curtiss Candy Dapper Lad (junior yearling). **Grand champion bull**—Roberts Dairy Co. on Meadowbrooks Valiant's King.

Females: Cows judged on udder (21 shown)—1, Rosebud Farm; 2, Bonnie Vista Guernsey Farm; 3, Roberts Dairy Co. Calves (23 shown)—1, Rosebud Farm; 2, Harry & Robert H. Lage; 3, Wynola Guernsey Farm. Junior yearlings (13 shown)—1, 2 and 3, Rosebud Farm. Senior yearling (20 shown)—1 and 3, Rosebud Farm; 2, Harry & Robert H. Lage. Two year olds—(17 shown)—1, Roberts Dairy Co.; 2, Harry & Robert H. Lage; 3, Rosebud Farm. Three year olds (11 shown)—1, Rosebud Farm; 2, Roberts Dairy Co.; 3, Harry & Robert H. Lage. Four year olds (five shown)—1, Rosebud Farm; 2, Roberts Dairy Co.; 3, Bonnie Vista Guernsey Farm. Aged (11 shown)—1 and 3, Rosebud Farm; 2, Woodruff Farm. Senior champion female—Rosebud Farm on Rosebud Farm Dawn (five year old). Junior champion female—Rosebud Farm on Rosebud Farm C. Theodora (senior yearling). **Grand champion female**—Rosebud Farm on Rosebud Farm Dawn; reserve, Rosebud Farm on Rosebud Farm C. Theodora. Premier breeder—Rosebud Farm. Premier exhibitor—Rosebud Farm.

Groups: Dairy herd (five shown)—1, Rosebud Farm; 2, Roberts Dairy Co.; 3, Harry & Robert H. Lage. Best three females (nine shown)—1, Rosebud Farm; 2, Harry & Robert H. Lage; 3, Prairie Lodge Guernsey Farm. Get of sire (five shown)—1, Rosebud Farm; 2, Harry & Robert Lage; 3, Prairie Lodge Guernsey Farm. Junior get of sire (eight shown)—1 and 3, Rosebud Farm; 2, Wynola Guernsey Farm. Produce of dam (14 shown)—1, Roberts Dairy Co.; 2 and 3, Rosebud Farm. Iowa District Herd (two shown)—1, Rosebud Farm; 2, Guernseys District No. 5.

AYRSHIRE

Judge: W. S. Watson, Hutchinson, Kan.

Exhibitors (from Iowa unless otherwise indicated): Ayshire Cedar Valley District, Waverly; Ayrshire Central Iowa District, Brooklyn; Ayrshire East Central Iowa District, Stockton; Elwood Burlingame, Grinnell; Roger Burlingame, Grinnell; Nick DeRonda, Reasnor; John F. Droste, Waverly; Clarence Funk & Son, Waterloo; Robert M. Gronewald, Manson; Harold Hanneman, Decorah; Leslie Hanneman, Decorah; Wayne Hanneman, Decorah; Io Wayside Farm, Stockton; Howie Lang & Sons, Brooklyn; Howard K. Mackey, Olin; Hugo Roehlk & Son, Walcott; Donald Roose, Allison; Glenda Sears, Grinnell; Richard Sears & Son, Grinnell; B. C. Stephenson & Sons, Riceville; Harvey D. Timmons, Washington; Paul Walker & Sons, Carlisle.

Bulls: Calves (11 shown)—1 and 2, Lang & Sons; Elwood Burlingame. Junior yearlings (two shown)—1, Droste; 2, Harold Hanneman. Senior yearlings (two shown)—1, Roehlk & Son; 2, Nick DeRonde. Two year olds (two shown)—1, Droste; 2, Roehlk & Son. Aged (four shown)—1, Stephenson & Sons; 2, Roose; 3, Mackey. Senior champion bull—Stephenson & Sons on Douglas Ayr Joyful Tim (aged). Junior champion bull—Lang & Sons on Iow Ayr Designer's Don (calf). **Grand champion bull**—Stephenson & Sons on Douglas Ayr Joyful Tim. Premium Breeder—Lang & Sons. Premium exhibitor—Lang & Sons.

Females: Cow judged on udder (13 shown)—1, 2 and 3, Funk & Son. Calves (27 shown)—1, Roose; 2, Io Wayside Farm; 3, Sears & Son. Junior yearlings (11 shown)—1, Lang & Sons; 2, Io Wayside Farm; 3, Funk & Son. Senior yearlings (15 shown)—1, Lang & Sons; 2, Sears & Son; 3, Glenda Sears. Two year olds (17 shown)—1, Funk & Son; 2, Io Wayside Farms; 3, Stephenson & Sons. Three year olds (11 shown)—1, Lang & Sons; 2 and 3, Funk & Son. Four year olds (seven shown)—1, Lang & Sons; 2, Sears & Son; 3, Funk & Son. Aged (11 shown)—1, Lang & Sons; 2, Funk & Son; 3, Stephenson & Sons. Junior champion fema'e—Roose on Curtiss Candy Fancie Berry (calf). Senior champion female—Lang & Sons on Iowa Ayr Designer's Cynthia (three year old). **Grand champion female**—Lang & Sons on Iowa Ayr Designer's Cynthia; reserve, Lang & Sons on Iow Ayr Designer's Nancy (four year old).

Groups: Dairy herd (six shown)—1, Lang & Sons; 2, Funk & Son; 3, Stephenson & Sons. Best three females (10 shown)—1, Lang & Sons; 2, Funk & Son; 3, Stephenson & Sons. Get of sire (six shown)—1, Funk & Son; 2, Lang & Sons; 3, Stephenson & Sons. Junior get of sire (eight shown)—1, Sears & Sons; 2, Io Wayside Farm; 3, Lang & Sons. Produce of dam (12 shown)—1, Funk & Son; 2 and 3, Lang & Sons. Iowa district herd (four shown)—1, Ayrshire Central Iowa District; 2, Ayrshire Cedar Valley District; 3, Ayrshire Northeast District.

JERSEY

Judge: John Fawcett, Point Lookout, Mo.

Exhibitors: (from Iowa unless otherwise indicated): Ronald Gilbert, Bondurant; Erick V. Glad and Wm. Gunnar, Stratford; Forrest Hatfield, Newton; B. F. Hoover, Oskaloosa; Herbert F. Hoover, Oskaloosa; Earl L. Lyon & Sons, Toledo; Russell Lyon, Traer; Billy McCorkle, Knoxville; Harland Safley, Sheridan, Mo.; M. G. Safley, Hopkins, Mo.; Shadyrest Jerseys, West Liberty; E. J. Skala and Skala Brothers, Tama; Leland S. Smith, Crescent.

Bulls: Calves (six shown)—1, Shadyrest Jerseys; 2, Lyon & Sons; 3, Skala and Skala Bros. Junior yearlings (two shown)—1, Russell Lyon; 2, Hatfield. Senior yearling (none shown). Two year old (two shown)—1, Lyon and Sons; 2, Glad and Gunnar. Aged (one shown)—1, M. G. Safley. Senior champion bull—Lyon & Sons on Jester Basileus Jester (2 year old). Junior champion bull—Russell Lyon on Jester B. Aim Gus (junior yearling). **Grand champion bull**—Lyon & Sons on Jester Basileus Jester.

Females: Cows judged on udder (12 shown)—1, Shadyrest Jerseys; 2, Russell Lyon; 3, Lyon & Sons. Calves (17 shown)—1 and 2, Russell Lyon; 3, Shadyrest Jerseys. Junior yearlings (seven shown)—1, Lyon & Sons; 2, Russell Lyon; 3, Shadyrest Jerseys. Senior yearling (11 shown)—1, Lyon Brothers; 2, Herbert F. Hoover; 3, Lyon & Sons. Two year olds (six shown)—1, Shadyrest Jerseys; 2, Lyon & Sons; 3, Hoover. Three year olds (eight shown)—1, Lyon & Sons; 2 and 3, Shadyrest Jerseys. Four year olds (six shown)—1, Skala & Skala Bros.; 2, Shadyrest Jerseys; 3, Glad & Gunnar. Aged (six shown)—1, Skala & Skala Bros.; 2, Russell Lyon; 3, Herbert F. Hoover. Senior champion female—Skala & Skala Brothers on Right Victor Julia (aged). Junior champion female—Russell Lyon on Belmont Dream Fairy Lou (calf). **Grand champion female**—Skala & Skala Brothers on Right Victor Julia (aged); reserve, Russell Lyon on Belmont Dream Fairy Lou (calf). Premier breeder—Lyon & Sons. Premier exhibitor—Lyon & Sons.

Groups: Dairy herd (four shown)—1, Skala & Skala Brothers; 2, Lyon & Sons; 3, Shadyrest Jerseys. Best three females (six shown)—1, Shadyrest Jerseys; 2, Skala & Skala Brothers; 3, Lyon & Sons. Get of sire (three shown)—1, Skala & Skala Brothers; 2, Shadyrest Jerseys; 3, Lyon & Sons. Produce of dam (seven shown)—1, Hoover; 2, Shadyrest Jerseys; 3, Skala & Skala Brothers. Junior get of sire (six shown)—1, Russell Lyon; 2, Lyon & Sons; 3, Shadyrest Jerseys. Iowa district herd (one shown)—1, Jersey Parish No. 5.

HOLSTEIN

Judge: L. V. Wilson, Owatonna, Minn.

Exhibitors (From Iowa unless otherwise indicated): H. F. Bothe, Fort Dodge; Bristol Farm, Bristol, Wis.; J. E. Bryant & Sons, Zearing; Centralia Milk Farm, Story City; Vernon Chaloupka, Yale; Warren Collier, Durant; Bill Durant, Davenport; Max L. Hill, Brooklyn; Harold Hodson, Jr., West Des Moines; Myron A. Johnson, Boone; Don Jorgensen, Ruthven; Holstein District No. 2, Maynard, Iowa; Willis A. McAlpin & Sons, Villisca; Barton McCuen & Son, Perry; ManCryCo Farms, Manning; Walter & Doris Meier, Manning; Leroy A. Moeckly & Sons, Polk City; Montcliff Holstein Farm, Davenport; Alfred M. Paper, Stockton; Elmer F. Paper, Stockton; Kenneth W. Paper, Stockton; Fred R. Peters, Des Moines; Rockcrest Farms, Elkader; Spies & Lein, Graettinger; I. P. Stewart, Maynard; Guy Stover, Jr. Hudson; W. H. Turner, Fayette.

Bulls: Calves (15 shown)—1 & 2, Bristol Farm; 3, Rockcrest Farms. Junior yearlings (4 shown)—1, Montcliff Holstein Farm; 2, Elmer F. Paper; 3, Peters. Senior yearlings (4 shown)—1, Stewart; 2, Spies & Lein; 3, ManCryCo Farms. Two year olds (4 shown)—1, Bristol Farm; 2, Warren Collier; 3, Turner. Aged (4 shown)—1, Spies & Lein; 2, McAlpin & Sons; 3, Rockcrest Farms. Senior champion bull—Spies & Lein on Soo Land Carnation Beets Ace (aged). Junior champion bull—Stewart on Star Dust Prince Pilgrim (senior yearling). **Grand champion bull**—Spies & Lein on Soo Land Carnation Beets Ace; reserve, Stewart on Star Dust Prince Pilgrim.

Females: Cows judged on udder (15 shown)—1, Stewart; 2, Bristol Farm; 3, ManCryCo Farms. Calves (25 shown) Stewart; 2, Spies & Lein; 3, Hall. Junior yearlings (10 shown)—1, ManCryCo Farms; 2, Stewart; 3, ManCryCo Farms. Senior yearlings (22 shown)—1, Jorgensen; 2, Bristol Farm; 3, McAlpin & Sons. Two year olds (15 shown)—1, Alfred M. Paper; 2, Johnson; 3, ManCryCo Farms. Three year olds (11 shown)—1, ManCryCo Farms; 2, Bristol Farms; 3, Stewart. Four year olds (15 shown)—1, Spies & Lein; 2, ManCryCo Farms; 3, Bristol Farms. Aged (15 shown)—1, Stewart; 2, Bristol Farm; 3, Spies & Lein. Senior champion female—Spies & Lein on Spies Carnation Joleen Ace (four year old). Junior champion female—Jorgensen on Spies Carnation Clothilde (senior yearling). **Grand champion female**—Spies & Lein on Spies Carnation Joleen Ace (four year old); reserve, Stewart on Velveeta Burke Violet (aged). Premier breeder—Bristol Farm. Premier Exhibitor—Bristol Farm.

Groups: Dairy herd (7 shown)—1, ManCryCo Farms; 2, Stewart; 3, Bristol Farm. Best three females (7 shown)—1, ManCryCo Farms; 2, Spies & Lein; 3, Stewart. Get of sire (5 shown)—1, Bristol Farms; 2, ManCryCo Farms; 3, Spies & Lein. Junior get of sire (7 shown)—1, Bristol Farm; 2, ManCryCo Farms; 3, Spies & Lein. Produce of dam (9 shown)—1, Stewart; 2, & 3, Bristol Farm. Iowa District Herd (3 shown)—1, Holstein District No. 2; 2, McCuen & Son; 3, Alfred M. Paper.

MILKING SHORTHORNS

Judge: Joe Hunter, Geneseo, Kansas.

Exhibitors (From Iowa unless otherwise indicated): Broadview Farms, Oskaloosa; Clampitt Farms, New Providence; Cloverton Farms; Reinbeck; Don Hoover & Sons, Norwalk; Kingsdale Farms, Oneida, Ill.; Laneview Farms, Chestnut, Ill.; Leeway Farms, Woodbine; McKee Farms, Carlisle; Mysha Farm, St. Anthony; Marjorie Newman, Mitchellville; Barbara J. Stoll, Chestnut, Ill.; Edwin D. Stoll, Chestnut, Ill.; Vicky Lynn Stoll, Mt. Pulaski, Ill.; Sunny Home Stock Farm, Wallingford; Twildo Herd, Clarence; A. L. Witte, State Center.

Bulls: Calves (14 shown)—1, Broadview Farms; 2, McKee Farms; 3, Mysha Farm. Junior yearlings (8 shown)—1, Mysha Farm; 2, Broadview Farms; 3, Cloverton Farms. Senior yearlings (7 shown)—1, Hoover & Sons; 2, Kingsdale Farms; 3, Cloverton Farms. Two year olds (4 shown)—1, Laneview Farms; 2, Clampitt Farms; 3, Twildo Herd. Aged (6 shown)—1, & 2, Mysha Farm; 3, Laneview Farms. Senior champion bull—Mysha Farm on Mysha Charming Lad (aged). Junior champion bull—Broadview Farms on Broadview MR Warrior (calf). **Grand champion bull**—Mysha on Mysha Charming Lad.

Females: Cows judged on udder (18 shown)—1, Laneview Farms; 2, Twildo Herd; 3, McKee Farms. Calves (21 shown)—1, McKee Farms; 2, Mysha Farm; 3, Twildo Herd. Junior yearlings (12 shown)—1, Broadview Farms; 2, McKee Farms; 3, Clampitt Farms. Senior yearlings (18 shown)—1, McKee Farms; 2, Mysha Farm; 3, Clampitt Farms. Dry cows (10 shown)—1, Kingsdale Farms; 2, Laneview Farms; 3, Cloverton Farms. Two year olds (15 shown)—1, McKee Farms; 2, Kingsdale Farms; 3, Broadview Farms. Three year olds (9 shown)—1, Clampitt Farms; 2, Twildo Herd; 3, Cloverton Farms. Four year olds (7 shown)—1, McKee Farms; 2, & 3, Laneview Farms. Aged (6 shown)—1, Laneview Farms; 2, Kingsdale Farms; 3, Leeway Farm. Senior champion female—McKee Farms on McKee's Hilda 2nd (four year old). Junior champion female—McKee Farms on McKee's Lady Flo 3rd (senior yearling). **Grand champion female**—McKee Farms on McKee's Hilda 2nd; reserve, McKee Farms on McKee's Lady Flo 3rd. Premier breeder—McKee Farms. Premier exhibitor—McKee Farms.

Groups: Dairy herd (7 shown)—1, Laneview Farms; 2, Mysha Farm; 3, Clampitt Farm. Best three females (10 shown)—1, Laneview Farms; 2, Mysha Farms; 3, McKee Farms. Get of sire (6 shown)—1, Laneview Farms; 2, Mysha Farm; 3, Clampitt Farms.

(Continued on page 99)

Champion Shorthorn steer at the Iowa State Fair was shown by Craig Davis, Pottawattamie, Iowa.

Quality run deep in the Angus bull classes at the Iowa State Fair. This junior yearling from Elltoneer Angus Farm, Tipton, Iowa, stood second in his class.

95 — HEAD — 95
BRAMMER HEREFORD SALE

October 5th
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12:00 Noon

29 Cows
All Good Ages

6 Bulls
Serviceable Age

4 Bred Heifers — 9 Open Heifers

47 1955 Calves (25 heifers and 22 bulls) — All of Calves dropped before July 1st

AN OPPORTUNITY FOR 4-H AND F.F.A. MEMBERS

The 1955 Champion and Reserve Champion steers and Champion 4-H heifer at the Clarke County Fair all came from this herd.

FEATURING:

Service of BHR ROYAL REGENTAL
by H. P. Royal Regent

Service of PRINCE MISCHIEF 90th
a linebred Mischief bull

Service of REGALITY A. 1st
by WHR Regality 64th

Get, Service, and Sale of MF BACA BARON 5th
by Baca Baron 17th. Reserve Champion Bull 1955 Iowa State Fair was a half-brother to MF BACA BARON 5th, also the 1st prize Pair of Bulls.

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SOUTHEASTERN IOWA POLLED HEREFORD ASS'N.

Fair Grounds Pavilion

OSKALOOSA, IOWA, FRIDAY, OCTOBER 7th

Starting promptly at 12:30 P. M.

19 TOP QUALITY BULLS — 32 WELL-BRED FEMALES

A Few Top 4-H Club Prospects

This is a grand offering of richly-bred cattle, selected from good herds. The 19 bulls, most all ready for service. One 2-year-old, one Senior yearling, seven Junior yearlings, seven Summer yearlings and others Senior calves. The type and quality for Herd Sires.

The 32 females include two cows, four Senior yearlings, seven Summer yearlings and ten Senior calves. A few Summer calves and 4-H prospects. Those of breeding age mated to outstanding sires. The open heifers, ideal to mate to your own herd sires. Consigned by the following breeders:

	Number
J. W. Campbell, Tiffin, Iowa	1
Wm. S. Gozine, Jr., Iowa City, Iowa	1
Ernest Clarkson, La Plata, Mo.	2
Calvin L. Cruzen, New Sharon, Iowa	2
Ernest Day & Sons, Grimes, Iowa	4
Harvey Kline, Melrose, Iowa	2
Delbert Krug, Atkins, Iowa	2
Harvey Krug, Atkins, Iowa	1
Jack R. Patten, Brooklyn, Iowa	3
Rodman Farm, Leighton, Iowa	3
John C. Schulte, Norway, Iowa	4
Bernard C. Schulte, Norway, Iowa	2
M. J. Seitsinger, Kinross, Iowa	7
Star Grove Stock Farm, West Liberty, Iowa	5
M. C. Starry, Olin, Iowa	5
H. O. Staggs, Seymour, Iowa	1
J. A. Stovall, New Sharon, Iowa	5
Leo Summers, Memphis, Mo.	2
Gerrit Van Der Molen, Taintor, Iowa	1
Martin Vos, Pella, Iowa	1
Peter G. Vos & Sons, Pella, Iowa	2
Herman Wurster & Sons, Olsarfield, Iowa	1

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Auctioneer, Tom Sherlock — Arch Stone, Fieldman

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Sale at farm, 12 miles north of Clinton, 28 miles east of Maquoketa, 31 miles south of Dubuque and 3 miles south on paving and 1 mile west on gravel of

SABULA, IOWA
THURSDAY, OCTOBER 6th

81 HEAD — 19 BULLS, 72 FEMALES

HP LARRY DOMINO 90th, the sire of HP Larry Domino 29th. Most of the calves in sale are by the "29th".

ZATO'S ARISTOCRAT, the sire of B.M. Zato Aristocrat 3rd. He sells. About 10 choice heifers are bred to him.

This is a richly-bred herd. The two herd bulls, rich in breeding, are evidence of the great sires. The 19 bulls include **HP LARRY DOMINO 29th** and **BM ZATO ARISTOCRAT 3rd** are bulls that will please. Young bulls by **BM ZATO ARISTOCRAT 3rd**, our Junior Herd Sire.

A most prolific producing cow herd . . . many sell with big lusty calves at side and will be pasture bred to **HP LARRY DOMINO 29th**. 10 most attractive heifers will be mated to **BM ZATO ARISTOCRAT 3rd**. The cows, most all young and sold in good thrifty breeding condition and are daughters of **ROYAL RUPERT K. 6th, O. INCOM REAL, TRUE DOMINO 58th, WHR PROUD MIXER 25th, WHR TRUE MOLD 27th, WHR JUPITER STAR 18th, CHOICE STAR, E. H. F. WOODFORD 169th, WHR REGALITY 23rd, E. H. R. ROYAL ENSIGN 16th, NOE'S BACA DUKE 2nd, BOCALOD 2d, HC LARRY DOMINO 90th, CLAYTON D. RETURN, ZATO'S ARISTOCRAT,** and **TRUE D. RUPERT**. Best in blood lines. Remember a Dispersion always offers bargains. COME! Ask now for FREE catalog. Kindly mention this publication. Address

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Iowa State Fair Awards

(Continued from page 97)

Junior get of sire (8 shown)—1, Kingsdale Farms; 2, Clampitt Farms; 3, McKee Farms. Produce of dam (10 shown)—1, & 2, Laneview Farms; 3, McKee Farms.

4-H Beef Heifers

Judges: Don L. Good, Manhattan, Kan. (Herefords); Wm. McCone, Brookings, S. Dak. (Shorthorn); J. T. Frost, Lafayette, Ind. (Aberdeen Angus).

Produce of former 4-H beef heifers: Herefords (8 shown)—1, Arnold Sheriff, Orient; 2, & 3, Keith Smith, Stanwood. Shorthorn (6 shown)—1, Larry Lucas, Lenox; 2, Julienne Obrecht, Harlan; 3, Archie Robison, Wapello. Aberdeen Angus (10 shown)—1, Faye Mugge, Cleghorn; 2, Karen Brown; 3, Kathryn Ann Schmuecker, Marengo.

Herefords: Dropped Jan. 1 to April 30, 1954 (27 shown)—1, Neal Smith, Stanwood; 2, Gene Heaberlin, Pleasantville; 3, Vaughn Wagler, Pulaski. Dropped May 1 to August 31, 1954 (27 shown)—1, and 3, Gary Minish, Dysart; 2, Jimmy Johnson, Council Bluffs. Dropped September 1 to December 31, 1954 (10 shown)—1, John Vance, Dysart; 2, Jack Fitzgerald, Melbourne; 3, Donna Kay Owen, Muscatine. Champion—Gary Minish, Dysart; reserve, Neal Smith, Stanwood. County groups (4 shown)—1,Marion; 2, Warren; 3, Story.

Shorthorn: Dropped Jan. 1 to April 30, 1954 (14 shown)—1, and 3, Kay Paul, Osceola; 2, Richard Frick, Muscatine. Dropped May 1 to August 31, 1954 (16 shown)—1, Roger Applegate, Oakland; 2, Robert Rees, Pleasantville; 3, Ann Brunsman, Earlham. Dropped May 1 to August 31, 1954 (28 shown)—1, Julienne Obrecht, Harlan; 2, Richard & Raymond Nyswonger, Indianola; 3, Roberta Jean Rees, Pleasantville. Champion—Roger Applegate, Oakland; reserve, Robert Rees, Pleasantville. County groups—1, Shelby; 2, Marion, 3, Muscatine.

Aberdeen Angus: Dropped Jan. 1 to April 30, 1954 (26 shown)—1, Allen Barr, Scranton; 2, Gary Williams, Jefferson; 3, Doran Ballman, Pulaski. Dropped May 1 to August 31, 1954 (28 shown)—1, Eldridge Drury, Galva; 2, Duane Goodman, Rhodes; 3, Richard Hullinger, Derby. Dropped Sept. 1 to Dec. 31, 1954 (6 shown)—1, Larry Barr, Scranton; 2, Gary Williams; 3, Eldridge Drury, Galva. Champion—Eldridge Drury, Galva; reserve, Allen Barr, Scranton. County groups (4 shown)—1, Greene; 2 & 3, Marion.

FFA Beef Heifers

Judge: Don L. Good, Manhattan, Kan.

Herefords: Dropped July 1 to Dec. 31, 1953 (one shown)—1, Berry Trindle, Adel. Dropped Jan. 1 to April 30, 1954 (five shown)—1, Dale Lineweaver, Winterset; 2, Ted Bastian, Humboldt; 3, Marvin R. Brooks, Stuart. Dropped May 1 to Aug. 31, 1954 (four shown)—1, Karl Roberts, Dysart; 2, Gary Laughlin, Imogene; 3, Robert Pearson, West Branch. Dropped Sept. 1 to Dec. 31, 1954 (none shown). Champion Hereford heifer—Karl Roberts; reserve, Dale Lineweaver.

Shorthorns: Dropped July 1 to Dec. 31, 1953 (one shown)—1, Gary Kellogg, Colo. Dropped Jan. 1 to April 30, 1954 (two shown)—1, Everette Howell, Columbus Junction; 2, Vance Whitehill, Shenandoah. Dropped May 1 to Aug. 31, 1954 (two shown)—1, Gary Kellogg, Colo; 2, Vance Whitehill, Shenandoah. Dropped September to Dec. 31, 1954 (none shown). Champion Shorthorn heifer—Everette Howell; reserve, Gary Kellogg, Colo.

Aberdeen Angus: Dropped July 1 to Dec. 31, 1953 (two shown)—1, Roger Hull, Cumberland; 2, Gaylord Livesay, Keosauqua. Dropped Jan. 1 to April 30, 1954 (five shown)—1, Gary L. Leonard, Perry; 2, Ronald Clark, Hamlin; 3, John Myers, Hardy. Dropped May 1 to Aug. 31, 1954 (seven shown)—1, Rodney Brannen, Muscatine; 2 and 3, John H. Rooks, Eldora. Dropped Sept. 1 to Dec. 31, 1954 (two shown)—1, John H. Rooks, Eldora; 2, Doran Van Rheenan, Pleasantville. Champion Aberdeen Angus heifer—Gary L. Leonard; reserve, Rodney Brannen.

4-H Dairy Heifers

Judges: George Werner, Madison, Wisc.; Chris Sanders, Lincoln, Nebr.; M. K. Lawritson, Lincoln, Nebr.

Pure Bred Holstein: Dropped before July 1, 1952 (11 shown)—1, James Lein, Graettinger; 2, Dennis Schoby, Bode; 3 Dale Miller, Harcourt. Dropped July 1, 1953, to June 30, 1954 (30 shown)—1, Donald Jorgensen, Ruthven; 2, James Lein, Graettinger; 3, Larry Haynes, Manchester. Dropped July 1, 1952, to June 30, 1953 (14 shown)—1, James McDonald, Gowrie; 2, Kenneth Paper, Stockton; 3, Richard McDonald, Gowrie. Dropped July 1, 1954, to March 1, 1955 (48 shown)—1, James Lein, Graettinger; 2, Daryl Pals, Sumner; 3, Dale Miller, Harcourt. Champion — James Lein, Graettinger. County group (12 shown)—1, Palo Alto; 2, Webster; 3, Delaware.

Jerseys: Dropped before July 1, 1952 (four shown)—1, Larry Skala, Tama; 2, Cleo Converse, Dike; 2, Tom Lyon, Toledo. Dropped July 1, 1952, to June 30, 1953 (nine shown)—1, Larry Skala, Tama; 2, Jan Kyl, Bloomfield; 3, Billy McCorkel, Knoxville. Dropped July 1, 1953, to June 30, 1954 (17 shown)—1, Tom Lyon, Toledo; 2, Pat Skala, Tama; 3, Larry DuPre, Toledo. Dropped July 1, 1954, to March 1, 1955 (18 shown)—1, Larry Skala, Tama; 2, Tom Lyon, Tama; 3, Pat Skala, Tama. Champion—Larry Skala. County group (four shown)—1, Tom; 2, Marion; 3, Iowa; 4, Marion.

Guernsey: Dropped before July 1, 1952 (11 shown)—1, Forrest Converse, Dike; 2, Gary Hoth, Monona; 3, Delmer Vos, Newton. Dropped July 1, 1952, to June 30, 1953 (13 shown)—1, Raymond Stuart, Elkhart; 2, Forrest Converse, Dike; 3, LeRoy Woodruff, Indianola. Dropped July 1, 1953, to June 30, 1954 (22 shown)—1, Merlin Orth, Waverly; 2, Forrest Converse, Dike; 3, Bernetta Jones, Ogden. Dropped July 1, 1954, to April 1, 1955 (20 shown)—1, LeRoy Woodruff, Indianola; 2, Forrest Converse, Dike; 3, Bobby Roylene Hoth, Monona. Champion—Forrest Converse, Dike. County group (four shown)—1, Warren; 2, Warren; 3, Bremer.

Ayrshire: Dropped before July 1, 1952 (five shown)—1, Larry Sears; 2, Gary Walker, Carlisle; 3, Donald Mackey, Olin. Dropped July 1, 1952, to June 30, 1953 (five shown)—1, Larry McHone, Stockton; 2, Larry Sears, Grinnell; 3, Regina Simmons, North English. Dropped July 1, 1953, to June 30, 1954 (eight shown)—1, Donald Mackey, Olin; 2, Larry Sears, Grinnell; 3, Larry VanderWerff, Reasoner. Dropped July 1, 1954, to March 1, 1955 (13 shown)—1, Larry Sears, Grinnell; 2, Donald Mackey; 3, Larry McHone, Stockton. Champion — Larry Sears, Grinnell. County group (one shown)—1, Poweshiek.

Brown Swiss: Dropped before July 1, 1952 (five shown)—1, Stanley Orskog, Callender; 2 and 3, Lanny Wilcox, Guernsey. Dropped July 1, 1952, to June 30, 1953 (10 shown)—1, Freddy Brandt, Postville; 2, Karen Bright, Eldora; 3, Cynthia Wilcox, Guernsey. Dropped July 1, 1953, to June 30, 1954 (13 shown)—1, Karen Bright, Eldora; 2, Dennis Mueller, McGregor; 3, Ralph Meewes, Dike. Dropped July 1, 1954, to March 1, 1955 (18 shown)—1, Barbara Schulte, Norway; 2, Marides Hunter, Gowrie; 3, Ronald Hunter, Gowrie. Champion—Stanley Orskog. County group (three shown)—1, Webster; 2, Delaware; 3, Marion.

Milking Shorthorn: Dropped before July 1, 1952 (five shown)—1, Jean McKee, Carlisle; 2, Dale Converse, Dike; 3, Patricia Sue Shaver, St. Anthony. Dropped July 1, 1952, to June 30, 1953 (10 shown)—1, Jean McKee, Carlisle; 2, Patricia Sue Shaver, St. Anthony; 3, Marjorie Newman, Mitchellville. Dropped July 1, 1953, to June 30, 1954 (15 shown)—1, Brenton McKee, Indianola; 2, Particia Sue Shaver, St. Anthony; 3, Marjorie Newman, Mitchellville. Dropped July 1, 1954, to March 1, 1955 (18 shown)—1 and 2, Jean Mcdianola; 2, Patricia Sue Shaver, St. St. Anthony. Champion—Jean McKee, Carlisle. County group (two shown)—1, Warren; 2, Marshall.

FFA Dairy Heifers

Judges: George Werner, Madison, Wisc. (Holstein and Ayrshire); Chris Sanders, Lincoln, Nebr. (Guernsey and Brown Swiss); M. N. Lawritson, Lincoln, Nebr. (Jersey and Milking Shorthorn); Bill Hitz, Polk City; I. P. Stewart, Maynard; Clair Wemer, Rose Hill (Showmanship).

Holstein: Dropped July 1, 1954 to Feb. 28, 1955 (one shown)—1, Harold Hodson, Jr., West Des Moines. Dropped July 1, 1953, to June 30, 1954 (one shown)—1, Larry Statler, Brighton. Dropped July 1, 1952, to June 30, 1953 (none shown). Dropped before July 1, 1952 (none shown). Champion Holstein heifer—Harold Hodson, Jr.

Jersey: Dropped July 1, 1954, to Feb. 28, 1955 (three shown)—1, James Marks, Norwalk; 2, Bernard Anderson, Jefferson; 3, Vernon Marks, Norwalk. Dropped 1, 1953, to June 30, 1954 (four shown)— and 2, Vernon Marks, Norwalk; 3, Monte D. Hansen, Humboldt.

(Continued on page 102)

LAMPORT'S Annual Hereford 4-H CALF SALE

At Britton Comfortable Sale Pavilion

BRITTON, SOUTH DAKOTA, SAT., OCTOBER 1, 1955

Sale starts promptly at 1:00 P. M.

350 HEAD **200 Outstanding Steer calves, 151 choice Heifer Calves.** They will be sold singly and in groups to please buyers. The real source of supply for **FAT STEER** champions in many of the leading **4-H** shows and open classes—note winners (Illustrated) here. Just a mere sample of the great winners. They can do likewise for you.

Purple ribbon winners at the Junior Livestock Show, South St. Paul, Minnesota, October 1954. All were purchased in our 1953 sale and represent the champion at 5 Minnesota counties.

IVAN HARDER, Mountain Lake, Minnesota, with Grand Champion steer at Junior Livestock Show. Sold for record price of $3.80 per lb. This steer also was purchased in our 1953 sale.

BETTER QUALITY

A fair sample of the wonderful brood cows in the herd, with big lusty calves at foot by our great herd bulls. These calves sell. Note conformation, excellent heads, level lines, and character. You can find winners and what you desire in this large offering.

PRIZE WINNERS

LAMPORT HEREFORDS—consistent winners in **4-H, F.F.A.** and open class steer shows throughout Corn-Belt and West, including Iowa, Minnesota, North Dakota, South Dakota, Missouri, National Western, Denver. They are continuing their wonderful winning at 1955 shows and calves purchased in this sale should do the same for you at 1956 shows.

THE CALVES—All raised on our Ranch and calved from April through June. Brought fresh from ranch for this sale. They will weigh from 300 to 450-lbs., averaging around 400 lbs.

STEER CALVES—They all sell in the sale . . . no tops have been taken out. The easy-feeding, modern-type, yellow and mellow. A steer purchased in our 1954 sale was the 1955 champion at Delaware County, Iowa, 4-H Achievement Show.

HEIFER CALVES—The cream of our 1954 crop, ideal to establish a purebred herd or replacement heifers, wonderful for commercial men who desire to produce top quality **beef** that will meet today's demand. Selected from a wonderful COW HERD, foundation from one of the famous herds, **T-O RANCH,** Raton, New Mexico. We have used great herd bulls from the THORP HEREFORD FARMS.

QUALITY + TYPE + MERIT + BREEDING

Our Goal — to produce calves with merit and top quality that is eagerly sought after by the Feeders who desire the best . . . the kind that win. Follow the crowd and results of others. The sale of the year! You will want to attend. The large number affords a wide selection . . . buy the best . . . improve your herd.

CLARK J. LAMPORT — LAMPORT RANCH

BRITTON, SOUTH DAKOTA

T. W. Sherlock, Fieldman

Attend our sale Saturday, October 1. Thorp Farms, Britton, South Dakota. October 3. Night Sale October 3. North Star Herefords Inc. and Krafka Herefords, Britton, South Dakota.

Tuesday
SEPTEMBER 27
A. C. FLINT

Guaranteed DISPERSION SALE

At the Bethany Fairgrounds

Bethany, Mo.

One of Missouri's Top Herds

SELLING 81 LOTS

1 BULL

EILEENMERE 35th OF A. C. F., our great young breeding bull, and a son of the well-known Eileenmere 649th. This offering is rich in the blood of Eileenmere 649th.

50 COWS WITH CALVES AT SIDE AND REBRED

16 BRED HEIFERS

8 OPEN HEIFERS

Service Bulls:

EILEENMERE 35th OF A. C. F., by "649th"
FERNDALE FRIAR 163d, by "999th 35"
HOMEPLACE EILEENMERE 299th, by "999th 35"

One of the outstanding features of this sale is a great Zara cow by Eileenmere 649th with an outstanding son of Elban Bardolier 3d at foot. A full sister sells bred to Homeplace Eileenmere 299th. These cattle are from the right strain of Zaras.

Another of the many features is one of the best Blackcap Bessie heifers that has ever been sold at auction. Her dam and full sister also sell. Families include Blackcap Bessie, Witch of Endor, Edwina Erica, Blueblood Lady, Maid of Bummers, Rosemere Barbara, McHenry Barbara, Bandy Maid Miss Burgess and others. Send today for your FREE catalog. Please mention this publication. Address

A. C. FLINT, BETHANY, MISSOURI

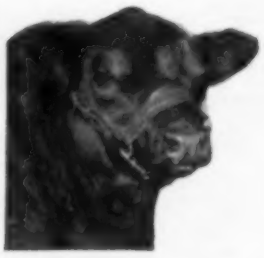
Auctioneer, Johnston and Sims — Arch Stone, Fieldman

ANGUS SALE

DRAPER & KING DISPERSION

AND

IVINS HERD REDUCTION SALE



SAT., OCT. 1

Sale at 12:30 P. M. at the Humeston Sale Barn

Humeston, Ia.

72 HEAD — 44 LOTS

8 Bulls

36 Cows and Calves

FEATURING THE GET, SERVICE, AND SALE OF:

EILEENMERE LR 10th—A top breeding son of Eileenmere 1107th by the International Champion, Eileenmere 500th. This four-year-old sired every calf in the Draper and King portion of the offering. These calves are outstanding, and only in a dispersion sale do you have the opportunity to purchase such a young proven sire.

BANDOLIER 188th OF WILTON—A six-year-old son of Bandolier 44th of Wilton. He has been used with great success in the Ivins herd, and they are retaining a large number of his daughters in their herd. He has a good disposition, and is a sure breeder. His produce has often sold at or near the top in sales.

AND THE GET AND SERVICE OF:

BANDOLIER 311th OF WILTON—A son of Bandolier 123d of Wilton that was selected to carry on in the Ivins herd. His first calves will sell, and they are outstanding.

For the most part, this offering will not be highly fitted, but are in strong breeding condition. Ages on the cows are good. Of course, the entire Draper and King cow herd sells, and there are many top producing cows among them. Ben and Vera Ivins have divided their herd, offering many of their best producing cows.

ATTENTION 4-H AND F.F.A. MEMBERS: There will be a number of calves at side of dams that will sell separate from dams, and there are some outstanding club prospects among them.

Send today for your **FREE** catalog. Please mention this publication. Address either.

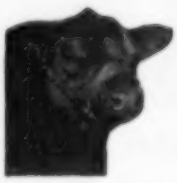
S. H. DRAPER & L. W. KING
Corydon, Iowa

BEN & VERA IVINS
Corydon, Iowa

Auctioneer, Roy Johnston — J. E. Halsey, Fieldman

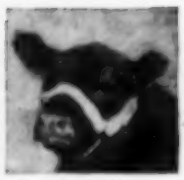
DAVIS COUNTY

Fall Angus Sale



Bloomfield, Iowa
Wed., Oct. 5th

Comfortable Reno Sale Pavilion
Starting at 12:30 P. M.



80 LOTS

15 Good Bulls — 65 Well-Bred Females

Many Cows with Big Calves and Rebred
Choice Bred Heifers and Attractive Open Heifers

One of the best offerings ever presented by the **DAVIS COUNTY** Breeders, selected with care and the profitable kind. The bulls, most all ready for service, by great sires. They are rugged, with type and quality. You can find a herd bull here. Our consignors are using sons of **PRINCE ERIC OF SUNBEAM . . . EILEENMERE 487th . . . PRINCE QUALITY OF SUNBEAM . . . PRINCE SUNBEAM 710th . . . EILEENMERE 500th** and other quality bulls. Best in breeding.

The families represented are: **BLUEBLOOD LADY, ENQUIRY DELL, EDWINA, BLACKCAP MISSIE, MAID OF BUMMERS, ZARA, JUANA ERICA** and other popular tribes.

The cattle come from good reliable herds and will be sold in practical condition. A real source of supply. An opportunity to secure the better popular families for a most reasonable price . . . they never sell high . . . but breeders always offer some of the best.

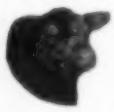
Plan to attend. Ask now for **FREE** catalog. Kindly mention this publication. Address

Bargain Day in Iowa — Come Take Advantage of Them

PHILLIP FULLER, Secy. MILTON, IOWA

Auctioneer, Merlin Woodruff — T. W. Sherlock, Fieldman

MINNESOTA STATE ANGUS SALE



Pipestone Sale Barn

PIPESTONE, MINN., SAT., OCTOBER 1st

57 HEAD — 21 BULLS, 36 FEMALES

Several 4-H Steers and Heifer Calves

A grand offering selected fromr 27 leading herds of the state. The 21 bulls, mostly all ready for service. Big rugged bulls, well-grown, with type and quality by great sires. Herd bull material. Females include bred cows and heifers, mated to top herd sires and attractive open heifers, by great bulls, ideal to mate to your own herd bulls. Rich in best blood lines. Plan now to attend. Ask for FREE catalog. Kindly mention this publication. Address

CLEMENT C. CHASE, Sale Mgr., Box 669, PIPESTONE, MINN.

Annual Fall Sale Central Illinois

ANGUS

In our pavilion on U. S. 150, midway between Peoria and Bloomington

CONGERVILLE, ILL., MONDAY, SEPT. 19

71ST SELECTIVE SALE

7 Top Bulls — **58 Good Females**

A grand offering selected with care from the leading herds of Central Illinois, where Top Angus are produced. Rich in pedigree and pleasing in type and quality, from reliable herds. Plan to attend. For FREE information, address

FORREST W. LEMONS, Secy-Mgr., Congerville, Illinois

NORTHWEST MISSOURI

SHORTHORN SHOW and SALE

Comfortable sale pavilion just south of state line at

ROCKPORT, MISSOURI

MONDAY, OCTOBER 3rd

SHOW — 9:00 A. M. — **SALE — 1:00 P. M.**

25 RUGGED BULLS — 35 DESIRABLE FEMALES

For their **24th** Semi-annual Show and Sale they have selected from the good herds a most desirable offering. The bulls most all ready for service, among which you can find a herd sire. The females include cows with calves and rebred, choice cows and heifers, mated to top herd sires and attractive open heifers, ideal to mate to your herd bull. Offering rich in blood lines. **COME!** Ask now for **FREE** catalog. Kindly mention this publication. Address

DR. L. W. LANDFATHER, Secy., 412 W. 2nd St., Maryville, Mo.

Auctioneer, J. E. Halsey

Coming Livestock Sales

ANGUS

Sept. 19—Central Illinois Breeders sale, Congerville, Ill. Forrest W. Lemons, Secy.
Sept. 26—Lancaster and La Vol, Dispersion) La Grange, Mo.
Sept. 27—A. C. Flint, Bethany, Mo.
Oct. 1—Minnesota State sale, Pipestone, Minn. Clem C. Chase, Mgr.
Oct. 1—Wisconsin Breeders sale, Lancaster, Wis. Earl Gelbach, Secy.
Oct. 1—Draper & King and Ben & Vera Irvins, Corydon, Iowa. Sale at Humeston, Iowa.
Oct. 5—Davis County, Bloomfield, Iowa. Phillip Fuller, Secy., Milton, Iowa.
Oct. 8—Hawkeye Angus Breeders Assn., Cedar Rapids, Iowa. Albert Stuart, Secy., Newhall, Iowa.
Oct. 10—Nodaway County and Harrison County Joint sale, Maryville, Mo.
Oct. 14—(Night Sale) Charles F. Beerman Club Calf Sale, Dakota City, Nebr.
Oct. 18—Blackpost Ranch, Olathe, Kan.
Oct. 19—Woelever & Pollock, Unionville, Mo.
Oct. 20—First Annual 4-H Steer sale, Frank Bosler Ranch, Laramie, Wyo. Sale at Denison, Iowa.
Oct. 21—Lazear Angus Farm, Chariton, Iowa.
Oct. 22—State Angus Calf sale, Ankeny, Iowa.
Nov. 2—Grand River Angus, Princeton, Mo. Marion Summers, Mgr., Princeton.
Nov. 2—"Quality Blacks" sale, Hugo Rock & Sons, Dixon, Iowa; Waldo Mommsen, Clinton, Iowa; Olson Bros., Calumus, Iowa; Brown & Hansen, New Libery, Iowa. Sale a Davenport, Iowa. Oliver A. Hansen, Sale Mgr., Durant, Iowa.
Nov. 3—J. M. Kilpack & Sons, (Dispersion) Logan, Iowa. Sale at Denison, Iowa.
Nov. 4—C. H. Nau & Son (Dispersion), Mt. Pleasant, Iowa. Sale at Columbus Jct., Iowa.
Nov. 7—Cloverly and Taylormade, Maloy, Iowa.
Nov. 12—Rogers Bros. Calf sale, Kirksville, Mo.
Nov. 12—Eastern Iowa Angus Assn., (4-H Calf sale) DeWitt, Iowa.
Nov. 14—Interstate Angus Breeders Fall Show & Sale, Sioux City, Iowa. Dwight Tabke, Sale Mgr., Moville, Iowa.
Nov. 22—C. A. Figland & Sons, Scarsboro, Iowa. Sale at Grinnell, Iowa.
Dec. 7—Otto Frank, Manilla, Findlay & Christensen, Harlan, P. K. Pratt, Walnut, and Charles F. Beerman, Dakota City, Nebr. Sale at Denison, Iowa.
Dec. 10—Pagemere (Jake Stimson Division) and Arlavon All 10th sale, Clarinda, Iowa.

FEEDER CATTLE

Sept. 19—Poplar Bluff, Mo., and Lebanon, Mo.
Sept. 20—Doniphan, Mo., and Stockton, Mo.
Sept. 21—Birch Tree, Mo.
Sept. 22—West Plains, Mo.
Sept. 23—Ava, Mo.
Sept. 24—Charley W. Peterson, La Plant, So. Dak.
Sept. 26—Ellington, Mo., and Stanberry, Mo.
Sept. 27—Alton, Mo. and Princeton, Mo.
Sept. 28—Houston, Mo., and Princeton, Mo.
Sept. 29, 30—Salem, Mo.
Sept. 29—Maryville, Mo.
Oct. 1—Vienna, Mo.
Oct. 3, 4, 5, 6, 8—Unionville, Mo.
Oct. 3—Montgomery City, Mo.
Oct. 4—Columbia, Mo.
Oct. 5—Macon, Mo.
Oct. 6, 8—Fayette, Mo.
Oct. 6—Central Wisconsin sale, Friendship, Wis.
Oct. 7—Kirksville, Mo., and Moberly, Mo.
Oct. 10—Scotland County, Memphis, Mo.
Oct. 10—Milan, Mo., and Warsaw, Mo.
Oct. 11—Davis County, Bloomfield, Iowa.
Oct. 11—Milan, Mo., and Versailles, Mo.
Oct. 12—Brookfield, Mo., and Appleton City, Mo.
Oct. 13—Vadie Baker, Lewistown, Mo.
Oct. 13—Sullivan, Mo., and Clinton, Mo.
Oct. 14—Owensville, Mo., and Bethany, Mo.
Oct. 15—Paris, Mo., and Bethany, Mo.
Oct. 31—Madison County Hereford Assn., feeder cattle sale, Winterset, Iowa.

HEREFORDS

Sept. 23—Wisconsin Hereford Breeders, Baraboo, Wis. Homer Graber, Secy., Mineral Point, Wis.
Sept. 28—J. R. Bergschneider, Chillicothe, Mo.
Oct. 1—Clark J. Lamport Calf sale, Britton, S. D.
Oct. 1—Tomlin & Wolland, Mason City, Ill.
Oct. 3—Thorp Hereford Ranch, Britton, S. D.
Oct. 3—(Night) North Star Herefords, Britton, S. D.
Oct. 5—Ralph Bramer, Murray, Iowa.
Oct. 6—Wilbert G. Robinson, (Dispersion) Sabula, Iowa.
Oct. 8—John Dittmer & Sons, Lacona, Iowa. Sale at Knoxville, Iowa.
Oct. 11—North Iowa Breeders, Mason City, Iowa. Leigh Curran, Secy.
Oct. 15—Wisconsin Breeders State show and sale, Lancaster, Wis. Homer Graber, Mgr., Mineral Point, Wis.
Oct. 17—Schultz Bros., Lamar, Nebr.
Oct. 19—Blue Grass Hereford Assn., Princeton, Mo. Norma Gay Young, Secy., Princeton, Mo.
Nov. 3—Northeast Missouri Hereford Breeders Assn., Memphis, Mo. Vernon Winkler, Secy.
Nov. 5—Orval Burchett & Sons, Grand River, Iowa. Wayne O. Burchett, Mgr.
Nov. 17—Illinois Futurity show and sale, E. Glen Ash, Secy., Harristown, Ill.
Nov. 19—Western Illinois Hereford Assn. (Calf Club sale) Macomb, Ill. Robert Allen, Secy., Warsaw, Ill.
Nov. 22—Harold Dunn, Greensburg, Mo.
Nov. 26—Hereford Breeders Calf sale, Story City, Iowa. Leon Jor, Mgr., Ames, Iowa.
Nov. 28—F. J. Bickel and Sons, (Dispersal) Lineville, Iowa.

POLLED HEREFORDS

Oct. 7—Southeast Iowa Polled Assn., Oskaloosa, Iowa. Calvin Cruzen, Sale Mgr., New Sharon, Iowa.
Oct. 11—North Iowa Breeders, Mason City, Iowa. Leigh Curran, Secy.
Oct. 15—O'Bryan Ranch, Hiattville, Kan.
Oct. 28—S. Wilson, Canton, Mo. Sale at Lancaster, Wis.
Oct. 29—Missouri State Futurity show and sale, Columbia, Mo. Donald J. Bowman, Sale Mgr., Hamilton, Mo.
Nov. 9—Master Key Place, (Dispersion) Fulton, Mo.
Nov. 14—O'Bryan Ranch, Hiattville, Kan.
Nov. 16—Ted Griswold, Livington, Wis.
Dec. 5—L. J. Marzen, Marble Rock, Iowa.
Dec. 6—Hervale Farms, Wayne, Nebr.
Dec. 8—Green Ridge Farm, (Dispersion) Donald & Helen Bowman, Kidder, Mo.
Dec. 9-10—Illinois Polled Hereford show and sale, Princeton, Ernest Painter, Secy., La Harpe, Ill.

SHORTHORNS

Sept. 24—Hawkeye Downs 5th sale, Shorthorns and Club calves. Earl S. Girton, Sale Mgr., Vinton, Iowa.
Oct. 1—Thiedie's Shorthorn and 4-H sale, Gregory, So. Dak. Merv F. Aegerter, Sale Mgr., Seward, Nebr.
Oct. 3—Northwest Missouri Breeders, Rockport, Mo. Dr. L. W. Landfather, Mgr., 412 W. 2nd, Maryville, Mo.
Oct. 6—Carl Retzlaff, Walton, Nebr. Mervin F. Aegerter, Sale Mgr., Seward, Nebr.
Oct. 8—Spencer Shoorthorn and 4-H Club sale Spencer, Iowa. Albert J. Hamann, Mgr., Rock Rapids, Iowa.
Oct. 14—Howard Hildreth, (Dispersion) R. 3, Estherville, Iowa.
Oct. 22—Akaarben Acres, Omaha, Nebr.
Oct. 26—Carl McKenzie, Armington, Ill.
Oct. 29—D. D. Staples and 4-H Calf sale, Des Moines, Iowa. Sale at Adel, Iowa.
Nov. 1—Dale Bellows—Roanridge Farm—Oren Lee Staley, Maryville, Mo. Mervin F. Aegerter, Sale Mgr., Seward, Nebr.
Nov. 5—13th Semi-Annual Central States show and sale, Oskaloosa, Iowa. C. Emory Stewart, Sale Mgr., Rose Hill, Iowa.
Nov. 7—L. E. Mathers & Son, Mason City, Ill.
Nov. 12—Western Illinois Breeders, Macomb, Ill. Don Longley, Sale Mgr., 16 S. Locust St., Aurora, Ill.

SHORTHORNS

Nov. 14—John Combs, New Market, Iowa, and Tip Lucas and Son, Lenox, Iowa. Sale at Lenox, Iowa.

POLLED SHORTHORNS

Sept. 27—Sioux Empire Show & Sale, Sioux Falls, So. Dak. Eric H. Thormodsgaard, Sale Mgr., Hudson, So. Dak.
Nov. 2—Missouri Breeders, Sedalia, Mo. Rollo E. Singleton, Sale Mgr., Jefferson City, Mo.
Nov. 16—Iowa State sale, Des Moines, Iowa. Wayne A. Carr, Secy., Cincinnati, Iowa.

DAIRY CATTLE

Sept. 17—W. H. Lieman & Son, (Holstein Dispersal) Fredericksburg, Iowa. Sale at Oelwein, Iowa. Claude E. Wylam, Sale Mgr., Waverly, Iowa.
Sept. 17—Richard Sears & Son, (Ayrshires) Grinnell, Iowa.
Sept. 21—15th Annual Tri-County Holstein sale, Wellman, Iowa. Dave Yoder, Mgr., Kalona, Iowa.
Sept. 21—William H. Weiter, (Holstein Dispersion) Hopkinton, Iowa.
Sept. 26—Miller-McDaniel (Jersey dispersion), Clarinda, Iowa. Ivan N. Gates, Sale Mgr., West Liberty, Iowa.
Sept. 27—D. J. Ginsberg, (Holstein Dispersal) Hector, Minn.
Sept. 29—Dr. Chas. A. Monahan, (Holstein Dispersal) Vinton, Iowa. Claude E. Wylam, Sale Mgr., Waverly, Iowa.
Oct. 22—Northwest Iowa Ayrshire Assn. Spencer, Iowa. Mrs. Fred Dlischer, Secy., Alta, Iowa.
Nov. 19—Iowa Holstein Breeders State sale, Spencer, Iowa.
Dec. 3—12th Annual Iowa State Ayrshire sale, Spencer, Iowa. Joe Back, Mgr., Storcy City, Iowa.

MILKING SHORTHORNS

Sept. 24—Illinois Northwest District Breeders, Pecatonica, Ill. Don Ward Mgr., Deer Creek, Ill.
Dec. 1—Iowa State Breeders sale, Des Moines, Iowa.

BERKSHIRES

Sept. 14—National show and sale, Barrow Show, Austin, Minn.
Sept. 23—National Futurity show and sale, Springfield, Ill.
Oct. 4—(Night sale) Elmer Monson, Blair, Nebr.
Oct. 3—(Night sale) Tom Connover, Bonnie Acres Farm, Holstein, Iowa.

CHESTERS

Sept. 29—Henry Jurgensen, R.2, Olin, Iowa.
Oct. 8—A. L. Bidne & Son, Lake Mills, Iowa.
Oct. 11—(Night sale) Albert H. Petersen, Jesup, Iowa.
Oct. 12—(Night sale) Walter Schminke, Van Horne, Iowa.

DUROCS

Oct. 1—Wm. Helmke & Son, Renwick, Iowa.
Oct. 6—Gregor Vaske & Sons, Dyersville, Iowa.
Oct. 6—(Night sale) Klein & Newbauer, Iowa Falls, Iowa.
Oct. 7—Juhl Bros., Luverne, Minn.
Oct. 8—Bert Brock & Sons, Sioux Center, Iowa.
Oct. 25—(Night sale) Iowa State Duroc sale, Boone, Iowa. Clarence E. Bundy, Secy., 220 Curtis Hall, Ames, Iowa.
Oct. 26—(Night sale) D. D. Staples, Des Moines, Iowa.

FEEDER PIGS

Oct. 1—Knapp Bros., Eureka, Ill. Sale at Congerville, Ill.

HAMPSHIRES

Sept. 21—(Night sale) E. R. Brenneman, Wayland, Iowa.
Sept. 21—(Night sale) Henderson Farm, Coin, Iowa.
Sept. 22—(Night Sale) Iowa Hampshire Breeders. Cedar Rapids, Iowa
Sept. 23—(Night sale) Orville Mecker, Wapello, Ia.
Sept. 26—(Night Sale) Duncan & Smylie, Columbus Jct., Ia.
Sept. 27—(Night sale) George Lorenz, Wells, Minn.
Sept. 28—(Night sale)—Field & Christiansen, Nora Springs, Iowa, and Don Yusten, Kasson, Minn. Sale at Osage, Iowa.
Sept. 29—(Night Sale) Dean Snyder, Good Hope, Ill.
Oct. 3—(Night sale) McGuire Hampshire Farm, Wisner, Nebr.
Oct. 4—Allen Lang & Son, Brooklyn, Ia.
Oct. 4—(Night Sale) C. T. Keen & Son, Le Grand, Ia.
Oct. 5—(Night Sale) Lettow Bros., Alden & Iowa Falls. Sale at Iowa Falls, Ia.
Oct. 5—Treasure Acres Farms, Blairsburg, Iowa, and El-Jon Farms, Rose Hill, Iowa. Sale at Treasure Acres.
Oct. 6—(Night sale) Fred Goodchild and Sons, Mallard, Iowa.
Oct. 7—O. W. Jones & Son, Ute, Ia.
Oct. 8—(Night Sale) John Volk & Sons, Battle Creek, Nebr.
Oct. 10—(Night Sale) Keith Robertson, Columbus Jct., Ia.
Oct. 11—(Night Sale) Dale McGraw, Pleasantville, Ia.
Oct. 15—(Night sale) Lee Norris, Fremont, Iowa.
Oct. 17—(Night sale—Carl & Sylvia Matheson, Neponset, Ill.
Oct. 19—Harry Knabe, Nehawka, Nebr.
Oct. 21—(Night Sale) Daggett & Soorholtz, Sale at Marshalltown, Ia.
Oct. 22—(Night Sale) Cecil Wilson, Lenox, Ia.
Oct. 24—(Night Sale) Fred Michaelsen, Ida Grove, Ia.
Oct. 25—(Night Sale) Lawrence Putney, Gladbrook, Ia.
Oct. 26—(Night Sale) Evertt Maahs, Walton, Nebr.

LANDRACE

Oct. 15—G. N. Knickerbocker, Radcliffe, Iowa. Sale at Iowa Falls, Iowa.
Oct. 24—(Night sale) Cecil Johnson, Webster City, Iowa.

POLANDS

Sept. 21—Louis Ruess & Sons, West Liberty, Iowa.
Sept. 22—(Night sale—Brown and Brown, Hampton, Iowa.
Sept. 23—Elwood & Orvan Olerich, Rolfe, Iowa.
Sept. 29—(Night sale) Evergreen Farms, Columbus Junction, Iowa.
Oct. 6—(Night sale) Eugene Dugan & Sons, Storm Lake, Iowa.
Oct. 7—(Night sale) Floyd Friedow & Sons, Kanawha, Iowa.
Oct. 13—(Night sale) Oscar Anderson & Sons, Leland, Ill.
Oct. 14—Helgens Bros., Monticello, Iowa.
Oct. 15—Iowa State Breeders Show and Sale, Nevada, Iowa. Fred W. Moorgan, Secy., 5801 College Ave., Des Moines, Iowa.
Oct. 19—(Night sale) Vernon Kvale, Beaver Creek, Minn.
Nov. 2—Orvan & Elwood Olerich, Rolfe, Iowa.

SPOTTED POLAND CHINA

Oct. 14—(Night sale) A. J. Anderson & Son, Kellogg, Iowa.

TAMWORTHS

Sept. 19—J. H. Jones, Ainsworth, Iowa.
Sept. 22—(Night sale) Jerry Ford, Milo, Iowa. Sale at Knoxville, Iowa.
Sept. 24—Minnesota State Tamworth sale, New Ulm, Minn. L. D. Vangness, Secy., Kenyon, Minn.
Sept. 26—(Night sale) Lee Winther, Wisner, Nebr.
Sept. 29—Paul Leaming, Polk City, Iowa. Sale at Ankeny, Iowa.
Sept. 30 - Oct. 1—National Type Conference Show & Sale, Cedar Rapids, Iowa.
Oct. 14—(Night Sale) Charles F. Beerman, Dakota City, Nebr.
Oct. 17—Eastern Iowa Tamworth Breeders, Tipton, Iowa. L. C. James, Secy., West Liberty, Iowa.

YORKSHIRES

Sept. 21—(Night sale) Henderson Farm, Coin, Iowa.
Sept. 27—(Night sale) Harlan Hanks, Oakvale Farm, Winnebago, Minn. Sale at Blue Earth, Minn.
Sept. 29—(Night sale) Merritt Cook, Nemaha, Iowa. Sale at Spencer, Iowa.
Oct. 5—(Night sale) F. L. Jackson & Sons, Lytton, Iowa.
Oct. 6—(Night sale) Eugene Dugan & Sons, Storm Lake, Iowa.
Oct. 7—(Night sale)—Yalehurst Farms, C. M. R. 158, Peoria, Ill.

LIVESTOCK FIELDMEN

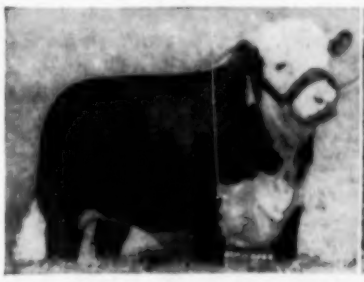
J. E. HALSEY, 1912 Grand Ave., Des Moines. Phone: Office 3-6181; Res. 7-3645.
THOS. W. SHERLOCK, Box 3, Oxford, Iowa. Phone 125.
ARCH STONE, 1912 Grand Ave., Des Moines. Phone: Office 3-6181; Res. 9-6995.
We publish the FIRST and THIRD Saturday of every month. Copy for livestock advertising must reach our office FIFTEEN days before date of issue.

A FAMILY TREE

that spreads & flourishes

MW Larry Onward 13th

"THE BULL THAT MAKES ENDS MEAT"



SON—TH LARRY ONWARD 137th, one of the very best sons of the "13th". Big for age, low-set, deep, thickly-covered, smooth.

SELLS OCTOBER 3rd

DAUGHTER—TH LARRYANA 119th. A very thick, beefy heifer, yellow and mellow, short-legged. Sells OCTOBER 3rd, bred to TR ZATO HEIR 296th.

GRANDSON—TH ROYAL DANDY 59th by TH Royal Domino 37th. Dam by the "13th", 1st prize Senior Calf, 1954 Iowa State Fair.

SELLS OCTOBER 3rd

GRANDDAUGHTER—TH LARRYLEE 6th. A big yellow heifer, thick from end to end. Sells OCTOBER 3rd, bred to TR ZATO HEIR 296th.

The "13th"—ZATO CROSS—a son of TR ZATO HEIR 50th, out of a daughter of the "13th". The type of calf available in the many "13th"-bred heifers mated to TR ZATO HEIR 50th and TR ZATO HEIR 296th, selling OCTOBER 3rd.

YOUNG GRANDSONS like this and granddaughters by TH LARRY ONWARD 31st sell at side of their mothers in the THORP-KRAFKE Sale, Britton, South Dakota. Night of OCTOBER 3rd.

Ask for FREE beautifully illustrated catalog. Kindly mention this publication. Address

GRAFT A BRANCH of this thriving family onto your herd from the many available in our

Thorp
HEREFORD FARMS
WALTON THORP
BRITTON, S. D.

T. W. Sherlock, Fieldman

All Star Sale Oct. 3

Royally-Bred Herefords

Sale at farm, 1½ miles south of

MASON CITY, ILLINOIS
Saturday, October 1st

BHR HELMSMAN A. 140th, purchased in the Blanchi Dispersion. A choice breeding son of the Register of Merit WHR HELMSMAN 87th, dam by Intense Domino 84th. A sire of top quality calves. No sells. Many females mated to him.

54 HEAD

5 BULLS

49 FEMALES

An offering of richly-bred cattle, 5 bulls, including 2 herd sires. **BHR HELMSMAN A. 140th** (illustrated here), owned jointly with Ainsworth & McCreery, and **T. W. BACA MISCHIEF 1st,** a 2-year-old bull from the show herd and used successfully. The other 3 bulls are by **T. W. REGALITY 2d.** You can find herd bull material here.

THE FEMALES—A most desirable lot, 10 young cows with calves at side and rebred, 24 bred cows and heifers and 20 most attractive open heifers, ideal age to mate to your own herd sires. Females are bred to **BHR HELMSMAN A. 140th, DOMESTIC MISCHIEF 107th, T. W. BACA MISCHIEF 1st** and **T. W. TATO HEIR 366th.** Rich blood lines. Plan to attend. Ask now for **FREE** illustrated catalog. Kindly mention this publication. Address

TOMLIN & WOLLAND
MASON CITY, ILLINOIS

Auctioneer, Jewett Fulkerson — Arch Stone, Fieldman

QUALITY SHORTHORNS

Sale at Retzlaff farm, 7 miles east of Lincoln and 2 miles south, near

BRAEMOR PRESIDENT 38th, a May, 1954, yearling by Tolquhon President. He was 3rd summer yearling at 1955 National Show, Iowa State Fair—sells as Lot 1. One of the top prospects this fall.

WALTON, NEBR, THURS., OCT. 6th

Starting at 1:00 P. M.

10 BULLS

34 FEMALES

50 Years of Progress and "Know-How" Behind Every Animal

The **10 BULLS** include **BRAEMOR PRESIDENT 34th,** 1st prize winner at National Show, Iowa State Fair, by Kansas State Fair champion, **BRAEMOR PRESIDENT 3rd.** Dam imported daughter of Perth Champion, Beaufort Bolido. 6 sons of **TOLQUHON PRESIDENT,** including the **"38th"** (illustrated here). Our show herd sells. They placed high in all group classes at National show. 2 sons of **GREGG FARM CLIMAX** by the $4,000 Edellyn Valiant Mercury that sired the International Grand Champion, Gregg Farm Hoarfrost.

34 FEMALES—13 cows with calves at foot, 11 bred cows, 10 open heifers. Daughters of Brawith Nugget, MF Goldfinder, Millhill's Starry Archer, Tolquhon President and Camson Cupbearer. Included is the dam of the 1949 Nebraska State Fair grand champion bull, which sold for $2,300. Also a full sister to the $2,500 Braemor Starry Archer 38th. All **T.B.** and **Bangs** tested. Fully guaranteed. Plan to attend. Ask now for **FREE** illustrated catalog. Kindly mention this publication. Address

MERVIN F. AEGERTER, Sale Mgr., SEWARD, NEBRASKA
CARL RETZLAFF & SONS, Owners, WALTON, NEBRASKA

Auctioneer, C. D. Swaffar — Arch Stone, Fieldman

When writing to our advertisers, please mention that you read their advertisements in Wallaces' Farmer and Iowa Homestead

GRAMPS AND HARLEY—It's good for something!

Iowa State Fair Awards

(Continued from page 90)

Dropped July 1, 1952, to June 30, 1953 (three shown)—1, Vernon Marks, Norwalk; 2, James Marks, Norwalk; 3, Bernard Anderson, Jefferson. Dropped before July 1, 1952 (none shown). Champion Jersey heifer—Vernon Marks.

Guernsey: Dropped July 1, 1954, to Feb. 2, 1955 (two shown)—2 and 3, Duwayne M. Doty, Council Bluffs. Dropped July 1, 1953, to June 30, 1954 (one shown)—3, Richard L. Beebe. Dropped July 1, 1953, to June 30, 1953 (three shown)—1, Jerry D. Hansen, Humboldt; 2 and 3, Richard L. Beebe, Humboldt. Dropped before July 1, 1953 (none shown). Champion Guernsey heifer—Jerry Hansen, Humboldt.

Brown Swiss: Dropped July 1, 1954, to Feb. 20, 1955 (three shown)—1, Dennis Tietz, Griswold; 2, John P. Fey, Humboldt; 3, Keith E. Nelson, Humboldt. Dropped July 1, 1953, to June 30, 1954 (four shown)—1, Rodney Brannen, Muscatine; 2, Wayne Norris, Eldora; 3, Dennis Tietz, Griswold. Dropped July 1, 1952, to June 30, 1953 (none shown). Dropped before July 1, 1952 (none shown). Champion Brown Swiss heifer—Rodney Brannen.

Ayrshire: Dropped July 1, 1954, to Feb. 28, 1955 (one shown)—1, Harvey D. Timmins, Washington. Dropped July 1, 1953, to June 30, 1954 (three shown)—1, James Marks, Norwalk; 2, Harvey D. Timmins, Washington; 3, Kenneth Vogt, Jr., Griswold. Dropped July 1, 1952, to June 30, 1953 (none shown). Dropped before July 1, 1952 (one shown)—1, Harvey D. Timmins, Washington. Champion Ayrshire heifer—Harvey D. Timmins.

Milking Shorthorns: Dropped July 1, 1954, to Feb. 28, 1955 (none shown). Dropped June 1, 1953, to June 30, 1954 (one shown)—1, Gene Ernst, Humboldt. Dropped July 1, 1952, to June 30, 1953 (one shown)—1, Gene Ernst, Humboldt. Dropped before July 1, 1952 (none shown). Champion Milking Shorthorn heifer—Gene Ernst, Humboldt.

Stop Disease Spread

Feet can spread contagious viruses and bacteria to livestock or poultry, warns a recent bulletin from the American Foundation for Animal Health.

"Whether the feet belong to flying birds, predatory rodents, stray dogs or human visitors is beside the question provided they are contaminated," says the Foundation.

Whenever a contagious disease is present on your farm, be fair and warn away all visitors from yards, feedlots or farm buildings. If possible, prevent traffic of all wheeled vehicles in and out of your place. If visitors must come in, be sure they wear rubber footwear and wash them clean of yard dirt before leaving.

"Couple all common precautions against disease exposure with a three weeks' isolation of newly purchased animals, and you can usually avoid costly trouble.

"If any new animals show symptoms of disease, a veterinarian should be called to diagnose the condition and prescribe treatment before it has a chance to spread," the Foundation concludes.

Mastitis means less profit

What are the real dangers from mastitis? Are they loss of the cow or complete loss of production? The American Veterinary Medical Association thinks both are important, but not the most important.

The AVMA says mastitis causes the loss of a good flavored, high quality product and reduces the net profit from the herd thru the loss of cows, but more importantly, thru lowered milk production, as well as occasionally thru returned milk.

Veterinarians can act as detectives to determine the environmental factors that cause the disease. In one of the major eastern dairy states, a survey of the management and environment on the farm is used as a help in finding the cause of mastitis. Great importance is placed on the milking machine, especially the mechanical condition, sanitation, and the way used.

ARTHUR H. RAY REG. HEREFORD DISPERSION AND GENERAL CLOSING OUT FARM SALE

FRIDAY, SEPTEMBER 23—10:30 A. M.
OTTUMWA, IOWA

Sale in tent. Lunch served. Located 6 miles south of Ottumwa on U. S. 63, or 13 miles north of Bloomfield on 63, and then 2 miles west on gravel road. Watch for sale signs.

55 HEAD OF REGISTERED HEREFORDS

2 HERD BULLS—Bell's Resolute 355th, calved May 3, 1950, and RRR Sovereign 12th, calved June 11, 1953.

6 YEARLING BULLS
4 BRED HEIFERS

9 BRED COWS
6 OPEN HEIFERS

14 COWS, mostly good ages, with calves at side (7 bulls and 7 heifers)
Good blood lines. All tested for T.B. and Bangs.

30 head of Purebred Hampshire Hogs . . . 11 Sows and 1 Boar . . . 12 Columbia Sheep . . . 1950 Ferguson tractor and full line of farm machinery. Feed, tools, and many other farm items. Don't miss this sale. Send for **FREE** catalog. Please mention this publication. Address

DONALD J. BOWMAN, Auct. & Sale Mgr., HAMILTON, MO.

MISSOURI COOPERATIVE
FEEDER CATTLE SALE
5750 — CATTLE AT AUCTION — 5750
SEPTEMBER 26 — OCTOBER 1, 1955

ELLINGTON, MO.
MON., SEPTEMBER 26 — 1100
800 calves, 300 yearlings. 80% Herefords, 20% Angus. Bernell Botkin, Sec., Centerville, Mo.

ALTON, MO.
TUES., SEPTEMBER 27 — 1000
800 calves, 200 light yearlings. Mostly Herefords, some Angus. F. O. Young, Sec., Alton, Mo.

HOUSTON, MO.
WED., SEPTEMBER 28 — 650
400 calves, 250 yearlings. 500 Herefords, 150 Angus and Shorthorns. Kirby Hart, Pres., Houston, Mo.

SALEM, MO.
THURS. & FRI., SEPT. 29 & 30
2200 Head—1400 calves, 800 yearlings. Mostly Herefords, some Angus and Shorthorns. Sept. 29, 1200 head. Sept. 30, 1000 head. Chester Boren, Mgr., Jack, Mo.

VIENNA, MO.
SATURDAY, OCTOBER 1 — 800
500 calves, 300 yearlings. 450 Herefords, 350 Angus. Ted Snodgrass, Pres., Vienna, Mo.

CATTLE SORTED INTO UNIFORM LOTS
As to Breed, Sex, Quality, Weight and Condition under Supervision of Missouri Agricultural Extension Service. Medium to Choice Quality. Cattle Sold by the Pound. Sales Conducted by Local Farmers in Their Own Pens. Sales start 1:30 P. M. All Cattle Dehorned.

CATTLE FRESH FROM FARM DAY OF SALE

MISSOURI COOPERATIVE
FEEDER CATTLE SALES
3800 — CATTLE AT AUCTION — 3800
SEPTEMBER 26-29, 1955

STANBERRY, MO.
MON., SEPTEMBER 26 — 800
650 calves, 150 yearlings. 350 Herefords, 350 Angus, 100 Shorthorns. John Swan, Mgr., Darlington, Mo.

PRINCETON, MO.
TUES. & WED., SEPT. 27 & 28
2200 Head—1800 calves, 400 yearlings. Sept. 27, 1200 Angus. Sept. 28, 600 Herefords and 400 Angus. P. D. Miller, Pres., Harris, Mo.

MARYVILLE, MO.
THURSDAY, SEPTEMBER 29 — 800
600 calves, 200 yearlings. 400 Angus, 200 Herefords, 200 Shorthorns. Wm. F. New, Pres., R. 1, Maryville, Mo.

CATTLE SORTED INTO UNIFORM LOTS
As to Breed, Sex, Quality, Weight and Condition under Supervision of Missouri Agricultural Extension Service. Medium to Choice Quality. Cattle Sold by the Pound. Sales Conducted by Local Farmers in Their Own Pens. All Cattle Dehorned. Sales start 1:30 P. M.

CATTLE FRESH FROM FARM DAY OF SALE

HOLSTEIN DISPERSION

Sale Barn on U. S. No. 218, ½ mile N. of
VINTON, IOWA, THURS., SEPT. 29
Starting promptly at 11:00 A. M.

120 REGISTERED CATTLE

30 Springers, due 1 to 10 weeks, 10 are milking since spring; **20 fresh and selling with calves; 10** bred and springing heifers, some will be fresh by sale day; **40** open heifers **8** to **24** months old; **10** heifer calves **1** to **6** months old; **50** heifers, ideal for **4-H** and **F.F.A.** members; **3** Herd Sires—two are **6** years old with daughters in production.

LOCHINVAR, SOVEREIGN and WOODMASTER Breeding
Extremely high production

Every animal over **6** months old Calfhood Vaccinated. All females over **30** months old **BANGS** tested. **T.B.** Accredited. Health Certificates for all. Plan to attend. Ask now for **FREE** Catalog. Kindly mention this publication. Address

CLAUDE E. WYLAM, Sales Mgr., WAVERLY, IOWA
Dr. Chas. A. Manahan, Owner, Vinton, Iowa
H. Swartz, Long, and Vargason, Auctioneers

HEREFORD DISPERSION SALE
12:30 P. M. at Fraley Sale Pavilion
CHILLICOTHE, MO., WED., SEPTEMBER 28th
200 HEAD SELL

Including 112 Registered Cows, 80 Calves, 2 Herd Bulls, **BHR HELMSMAN A. 152d** by WHR Helmsman 87th, and **CA TRUE MOLDER.** Also some commercial cows and club calves. This group of cattle is good. All good producing cows in pasture condition. Write for **FREE** catalog. Please mention this publication. Address

MRS. LORA ASHLOCK, Mgr., CHILLICOTHE, MO.

J. R. BERGSCHNEIDER, Owner, ALEXANDER, ILL.
Auctioneer, Freddie Chandler

MILLER-McDANIEL JERSEY DISPERSAL
At Farm, 4 miles north on Highway 71 — Starting at 12:00 Noon
CLARINDA, IOWA, MONDAY, SEPTEMBER 26th
73 HEAD OF MEADOWRIDGE AND HAPPY VALLEY BREEDING
Choice Young Cows, Bred and Open Heifers, 4-H Calves — Select Bulls

All young stock sired by **JESTER PINNACLE** (also selling in sale), a son of Brampton Jester Bastleus. Excellent Sr. Superior Sire and out of Pinnacle Tefbia Royal, Excellent Ton of Gold Cow—sold at auction for $5,100. Calfhood vaccinated. **T.B.** and **Bangs** tested. **BUY THESE OUTSTANDING JERSEYS AT YOUR OWN PRICE.** Ask now for **FREE** catalog. Kindly mention this publication. Address

IVAN N. GATES, Sale Mgr., WEST LIBERTY, IOWA
Auctioneer, Tom McCord

READ THE ADVERTISEMENTS—THEY'RE NEWS OF WHAT'S NEW

SPECTACULAR NEW 1955
NATIONAL DAIRY CATTLE CONGRESS

WORLD'S GREATEST DAIRY EXPOSITION

10 SENSATIONAL ALLIED SHOWS

Midwest's Largest Industrial Exposition. Over 10,000 Models—20th Century "Push Button" Labor-Saving Machines for Farm and Home

STAR STUDDED TWICE DAILY
HIPPODROME SHOWS
DAZZLING, BRILLIANT, NEW, BIGGER AND BETTER. STARS OF STAGE, SCREEN, RADIO, TV, AND THE BIG TOP. Nation's finest circus act. Sensational Harmonicats. World's champion trapoline artists. Victor Julien's internationally famous dogs. Many others. Midwest's greatest saddle horse show. Colorful livestock parade—
THREE THRILLING HOURS OF SUPER SENSATIONAL ENTERTAINMENT.

8 BIG DAYS
OCT. 1—OCT. 8
SATURDAY THROUGH SATURDAY
WATERLOO, IOWA

Nationwide poultry, rabbit, waterfowl exhibits—complete women's department—colorful garden and flower show.

MAIL HIPPODROME SHOW RESERVATIONS → NOW

FOR HIPPODROME SEATS—mail check or money order today to DAIRY CATTLE CONGRESS Ticket Dept. Choice seats still available.
POPULAR PRICES:
RESERVED SEATS (Incl. Tax)...$1.50 ea.
BOX SEATS (Incl. Tax).....$1.75 ea.
(Children some if they occupy seat.)
Performance daily at 3:00 p.m. and 7:00 p.m.
Send self-addressed, stamped envelope—give number of tickets desired, performance, day.

Annual Southwest
WISCONSIN ANGUS SALE

Only 20 miles N. of Dubuque, Ia., at Fair Grounds at
LANCASTER, WISCONSIN
SATURDAY, OCT. 1, 1955
10 TOP BULLS
50 CHOICE FEMALES
10 TOP BULLS - 50 CHOICE FEMALES

A choice offering selected from the best herds in this section, where well-bred **Angus** cattle are produced. The **10** Bulls, most all ready for service, rugged individuals, rich in breeding, suitable for Breeder and Farmers.

THE FEMALES, 50 most desirable cattle including cows with calves are rebred, bred heifers, mated to top Herd Sires and attractive open heifers. Good practical breeding cattle, from well-known families. The regular producing kind that will return a quick profit, sold in thrifty breeding condition. Rich in the blood of:

EILEENMERE - ROSEMERE - HARTLEY - BANDOLIER - BARDOLIER

They are consigned by good reliable breeders, namely:

Ahrens Brothers	Prairie du Chien	Harry Horsfall	Bloomington
Mr. and Mrs. Harold Austin	Lancaster	Harold Finley	Janesville
Lisle J. Blackbourn	Cassville	C. J. Kettler	Platteville
Lloyd Blackbourn	Cassville	Mr. and Mrs. Geo. E. Kohl	Reedsburg
George Day	Dodgeville	Harry May	Mineral Point
E. M. Gant	Mineral Point	J. C. Perrin & Son	Bloomington
Earl Gelbach	Lancaster	Linden Pickel & Son	Platteville
C. P. Hauk	Cassville	Argyle Skolas	Westby
Robert Harn	Platteville		

Wisconsin is the place to secure choice, richly-bred cattle at reasonable prices. Plan to attend. Ask now for FREE catalog. Kindly mention this publication. Address

EARL GELBACH, Secy. - LANCASTER, WIS.

HILDRETH SHORTHORN DISPERSION
Sale at farm near
ESTHERVILLE, IOWA, FRIDAY, OCTOBER 14th
95 HEAD — HERD BULLS, FOUNDATION FEMALES
Outstanding Club Calves and Heifer Calves by
GREENWOOD CRAFTSMAN

The herd bulls are **BROADLAWN OUTLOOK** and **SANDOON**, with other young bulls. Choice cows with calves and rebred. Bred cows and heifers and open heifers. Rich breeding. Desirable cattle. (Full details next issue.) Ask now for **FREE** catalog. Please mention this publication. Address

HOWARD HILDRETH & SON, R. 3, ESTHERVILLE, IOWA
Auctioneer, J. E. Haley

RESERVE CHAMPION CARCASS at the Mississippi Valley Market Hog Show at Davenport, Iowa, 1956. Shown in a class of 34. Bred and owned by Henry Jurgensen, and sired by THE AUCTIONEER, sire of most of this offering.

JURGENSEN
Chester White Sale
Thurs., Sept. 29, 1:00 p. m.

Sale at the farm, 3 miles north and 1 mile west of

OLIN, IOWA

20 Spring Boars
20 Spring Gilts
10 Tried Sows, both bred and open
60 Head of July Pigs for the commercial man. A part of these are from Hampshire sows and sired by THE AUCTIONEER. Will sell in groups.

COME AND BUY WHERE THE GOOD ONES ARE RAISED AND ALWAYS SELL AT FARMER PRICES.

Most of the offering is sired by THE AUCTIONEER, sire of the carcass at left, and of the Grand Champion Boar at the 1955 All-Iowa Fair, and the 2d and 3d prize fall sows at the 1955 Iowa State Fair. All of our prize winning spring pigs will sell.

Send now for your FREE catalog. Please mention this publication. Address

HENRY JURGENSEN, OLIN, IOWA

Auctioneer, M. E. C. Jurgensen — J. E. Halsey, Fieldman

Profitable Hampshires

VINDICATOR PRINCE 1st, Reserve All-American, son of Vindicator.

Sale at farm, 8 miles east of Marshalltown on No. 30 and 64 and ½ mile west of

LE GRAND, IOWA
TUESDAY, OCT. 4th

Night Sale — 7:30 P. M.

40 EXTRA CHOICE BOARS
10 FINE REGISTERED GILTS
15 GOOD COMMERCIAL GILTS

Remember, we exhibited the light weight **CHAMPION** Barrow at 1955 Iowa State Fair over **ALL BREEDS**. A great offering, mostly half-brothers to the **CHAMPION** Barrow, by **CITATION 1st**. We also offer the Iowa Reserve Senior Champion. Several out of **PR** litters, the kind that will be **CERTIFIED**, true **MEAT-TYPE** kind. Herd State Accredited. **COME!** Ask now for **FREE** catalog. Please mention this publication. Address

C. T. KEEN & SON, LE GRAND, IOWA

BONNIE ACRES FARM BERKSHIRES

Holstein Sale Barn

HOLSTEIN, IOWA, MONDAY, OCTOBER 3rd

Night Sale — 7:30 P. M.

20 BOARS — 20 GILTS

Choice, well-grown by **MAPLEWOOD NEW MAKER, BONNIE ACRES JACKSON, SURMOUNT STYLE, FOUR OAKES SURMOUNT,** and **SURMOUNT LEGACY** . . . best in breeding. We sell **MAPLEWOOD NEW MAKER 10th**, Missouri Junior Champion. 1 litter mate boar and 2 litter mate gilts. Remember we showed Grand Champion **Pen 3 Barrows**, Missouri State Fair. The most profitable kind . . . real money-makers. **COME!** Ask now for **FREE** catalog. Kindly mention this publication. Address

TOM CONOVER, HOLSTEIN, IOWA

RUESS' ANNUAL POLAND SALE

Sale at farm, 3 miles southwest of

WEST LIBERTY, IOWA, WEDNESDAY, SEPTEMBER 21

Starting at 1:00 P. M.

40 RUGGED BOARS — 35 CHOICE GILTS
50 SPLENDID JULY FEEDER PIGS

They are the genuine **MEAT-TYPE** of today, by boars that have made a record: **VICTORY PRIDE**, sire of 1st prize boar at Illinois and grand sire of 1954 International grand champion car load. Also International Grand Champion Barrow, **MASTER PRAIRIE BOY**, sire of the stretchiest pigs we raised; **ENRICHED BANNER 2nd**, top of 1954 state sale, and **LIBERATOR BOY**, litter mate to 1954 Illinois State Fair junior champion. All well-grown, with length, size and quality. Vaccinated and **BANGS** tested. Ask for **FREE** catalog. Kindly mention this publication. Address

LOUIS RUESS & SON, WEST LIBERTY, IOWA

Auctioneer, Harry Duncan — Free lunch at farm at noon

ANNUAL BROWN AND BROWN POLAND
BOAR AND GILT SALE

At the Fairgrounds Sale Pavilion

HAMPTON, IOWA, THURSDAY, SEPTEMBER 22nd

Night Sale — 7:30 P. M.

25 BOARS — 15 GILTS

Sired by: **BOOMER SOONER**, second prize junior yearling at 1955 Iowa State Fair, and sire of 1955 All-Iowa Fair Junior and Grand Champion Boar, and sire of most of the barrows we have shown at this season's leading shows. **FANDANGO**, third prize Junior Yearling at 1955 Iowa State Fair, son of **FLASH CHIEF**, the breed's first **MEAT-CERTIFIED** sire. **FANDANGO** sired the third prize Senior Spring Boar and Senior Spring Gilt at the 1955 Iowa State Fair. They and their litter mates sell. Every boar in this offering is from a litter of 8 or more. Every boar weighed 2½ pounds or more at birth. At 56 days every boar weighed 30 pounds or more. We have **6 Production Registry** litters. We have **9 herd improvement** litters. Feature attraction—**FLASH CHIEF** litter of 13, 6 boars and 1 gilt of litter sell, including the 3rd prize boar at All-Iowa Fair, 6th prize boar, and reserve junior champion gilt at Iowa State Fair. Iowa Bangs accredited herd. Write for **FREE** catalog. Please mention this publication. Address

BROWN AND BROWN, HAMPTON, IOWA

Choice Feeder Cattle

At auction, Cheyenne Indian Reservation, Willow Creek Stock Yards, 20 miles south on U. S. No. 212 of

LA PLANT, S. D., SATURDAY, SEPT. 24th

Sale Starts at 12:00 Noon

4,000 HEAD
HEREFORDS — ANGUS — ANGFORDS

1,000 Steers—Wts. 700-750 lbs.
800 Steers—Wts. 800-850 lbs.
400 Steers—Wts. 900-950 lbs.
300 Steers—Wts. 1,000 lbs.
500 Steers—Wts. 600-650 lbs.
500 Heifers—Wts. 650-750 lbs.
300 Stocker & Breeding Cows
200 Fat Cows

All our own raising, choice quality, predominantly **ANGUS** . . . with others **HEREFORDS** or Cross-Bred **HEREFORD-ANGUS** (Black-Whitefaces). All sorted in carload lots . . . sold by the pound, average weights announced before they are sold . . . delivered free for loading over Milwaukee Railway at Ridgeview, South Dakota. All females tested for Interstate shipment.

Make up a party **NOW** . . . drive out and see these choice cattle, as well as visiting one of the largest remaining virgin areas in United States . . . truly a sea of grass.

CHARLEY W. PETERSON, Owner

Auctioneers, Ernie Weller and Associates, Atkinson, Nebraska
Phone or write for information to Atkinson, Nebraska. Phone 5141

Annual Fall North Iowa
HEREFORD
ASSOCIATION

North Iowa Fair Grounds

MASON CITY, IOWA, TUESDAY, OCTOBER 11

Starting at 12:00 Noon

HORNED HEREFORDS — POLLED HEREFORDS
30 RUGGED BULLS — 10 FINE FEMALES

A small offering selected from the well-known herds in this area, where better **HEREFORDS** are produced. Bulls most all ready for service, big rugged bulls, rich in pedigree, pleasing in type and quality. Herd bull material. The females, a few bred females and open heifers. (More details next issue.) Plan to attend. Ask now for **FREE** catalog. Kindly mention this publication. Address

LEIGH R. CURRAN, Sale Mgr., MASON CITY, IOWA

Auctioneer, Tom Sherlock — J. E. Halsey, Fieldman

POLAND CHINA SALE

Sale at farm, 2½ miles south on No. 44, of

ROLFE, IOWA
FRIDAY, SEPT. 23rd

Night Sale — 7:30 P. M.

40 Top Boars
20 Choice Gilts

Two great herds are joining together and presenting an outstanding offering of purebred hogs, selected from more than 400 head, which will be one of the great herd sire events of the year. Sired by **PRAIRIE VIEW TRIUMPH**, 1st Fall Boar, Iowa, Indiana and Wisconsin State Fairs in 1954. **KING'S PAY**, 3rd Senior Spring Boar at Iowa last fall; **EL-BAR; O. BILTRITE** by Biltrite Model; **PAT'S BLUE STAR**, and others. Included is Junior Champion Boar at Sioux Falls by **PRAIRIE VIEW TRIUMPH**, and Grand Champion Gilt by same sire. Also a boar and gilt from the Grand Champion Sow of Iowa 1955 sired by **KING'S PAY**. Also 2nd prize Junior Gilt at Iowa . . . they are litter mates. If you desire boars and gilts with real **growing-ability**, you can find them here. Plan to attend. Ask now for **FREE** catalog. Kindly mention this publication. Address

ELLWOOD & ORVAN OLERICH, ROLFE, IOWA

Auctioneer, Harry Duncan

HUBER POLAND CHINA SALE

Sale at 1:00 P. M., at the farm, on State Highway 133, 10 miles north of Dodge Street

SATURDAY, SEPT. 24th, OMAHA, NEBRASKA
45 Boars — 30 Gilts

Two of the boars are fall boars, and included is the first prize fall boar at the recent Nebraska State Fair.

All of our winning pigs at the 1955 Nebraska State Fair, including the Junior and Reserve Grand Champion gilt, will sell. All are from HI litters. From a line of breeding that has been doing exceptionally well for commercial producers when sold on a grade and yield basis.

Plenty of new blood for old customers. Send today for your **FREE** catalog. Please mention this publication. Address

CLARK J. HUBER, Rt. 7, OMAHA 4, NEBRASKA

COOK'S YORKSHIRE SALE

At Spencer Dairy Exchange on U. S. No. 71 at

SPENCER, IOWA, THURSDAY, SEPTEMBER 29th

Night Sale starting at 8:00 P. M.

60 HEAD — 25 BOARS, 15 GILTS, 2 FALL GILTS BRED FOR FALL LITTERS
8 OUTSTANDING YEARLING BOARS

A selection from a well-known herd. The 25 spring boars are sired by **ROSDALE 23H**, Straight English Breeding, **LVH ENGLISH MAN 1J**, son of the 1954 Illinois Grand Champion. 8 outstanding yearling boars by **ROSDALE**. 12 fall gilts bred for early October litters to **ENGLISH MAN** and 15 spring gilts by same sires as the spring boars. **BANGS** tested, vaccinated for Cholera and Erysipelas. Plan to attend. Ask for **FREE** catalog. Kindly mention this publication. Address

MERRITT B. COOK, NEMAHA, IOWA

• READ THE ADS EVERY ISSUE AND TELL THE ADVERTISER YOU READ HIS AD IN WALLACES' FARMER AND IOWA HOMESTEAD WHEN YOU WRITE FOR INFORMATION.

"USE A JACKSON YORKSHIRE BOAR"

From

"THE SALE OF SUPER SIRES"

We Offer

55 — Strictly Correct, Meat Type Boars — 55

YOUR OPPORTUNITY TO BREED PREMIUM PORK

Our Boars Will Increase the Quality of Pigs from Any Sow Herd!

Any Breed

NOTICE!!! The records show that cross bred and straight bred butcher hogs sired by our boars have received more premium prices than those sired by boars from any other herd—regardless of breed! They will do it for you.

These young boars are backed up with generations of correct meat type sires and dams! Join the meat type parade for bigger profits. You can join at the head end by using a Jackson Bred Large English Yorkshire Boar.

Sale at the farm—you are cordially invited

F. L. JACKSON & SONS, LYTTON, IOWA

Wednesday, October 5, Night Sale, 7:30 P. M.

Send now for your FREE catalog. Please mention this publication.

Auctioneer, Jim Morris — Arch Stone, Fieldman

LEW NICHOLS, Sale Consultant, WEBSTER CITY, IOWA

ANNUAL SALE

DUROC BOARS & GILTS

Sale at farm, 3 miles north on No. 136 of

DYERSVILLE, IOWA

THURSDAY, OCT. 6th

Starting at 1:00 P. M.

50 OUTSTANDING BOARS
25 WONDERFUL GILTS

One of the best offerings I have ever presented. All well-grown, with length, type and merit, sired by **RED MACK**, sire of top quality pigs; **GOLDEN ERA**, the 1953 Minnesota Junior Champion, he is shring sound, rugged boars. Three litters by other leading sires. Plenty of **NEW** blood for old customers. Those looking for rugged, fast-growing kind, with length, depth, heavy-bone and the truly **MEAT-TYPE** will find it in abundance here. We produce the kind the farmers like and make a profit from producing them. State Accredited Herd No. 133. **COME!** Ask for **FREE** catalog. Please mention this publication. Address

GREGOR VASKE & SONS, DYERSVILLE, IOWA

OAKDALE FARM DUROCS

Sale at Oakdale farm 2 mi. N. 1 mi. E. of

RENWICK, IOWA

SATURDAY, OCT. 1

80 TOP DUROCS

50 Great Boars
30 Choice Gilts

One of the top offerings of the year, selected from **300** head, where top quality **DUROCS** have been produced for many years. The genuine **MEAT-TYPE** kind. All well-grown, with size, length, well-hammed and wonderful loins. They will please. Sired by **OAKDALE MASTER STAR**, 1954 Minnesota Reserve Champion; **OAKDALE PEACMAKER**, 1953 Iowa Reserve Champion; **OAKDALE MODERATOR** and **OAKDALE ACE**, a son of Ohio Reserve Grand Champion. Championship breeding at its best. Plan to attend. Accredited BANGS Free No. 172. Ask now for FREE catalog. Kindly mention this publication. Address

W. H. HELMKE & SON, RENWICK, IOWA

John Hall, Auctioner

Bidne's Chester Sale

Sale at farm, 5½ miles west of

LAKE MILLS, IOWA, SATURDAY, OCTOBER 8

Starting at 1:00 P. M.

40 TOP BOARS

A great offering selected with care from one of the best herds of the breed. Well-grown with type and merit, sired by **SILVER STREAK** 649775, the 1954 Grand Champion at National Show, Austin, Minn., and **GOLIATH** 649651, the 1954 Missouri Grand Champion. Truly grand champions and they transmit the same wonderful quality to their offspring. Breeding and quality at its best. **COME!** Ask for **FREE** catalog. Kindly mention this publication. Address

A. L. BIDNE & SON, LAKE MILLS, IOWA

Auctioneer, Joe Reisch

When writing to advertisers, will you please mention this paper?

DUROCS

The RED HOGS with MORE RED MEAT! Tops in GROWTH IMPULSE!

FARMERS BUY MORE DUROCS THAN ANY OTHER BREED.

MORE HAM & LOIN

Yes, Durocs Excel in Pork's Two Most Expensive Cuts! Slaughter results at the 1954 National Barrow Show gave proof of the superiority of Durocs over all other breeds in percentage of both ham and loin. U.S.D.A. tests on Duroc herds conducted last year for meat-type showed a majority of all Durocs tested grading U.S. No. 1.

Duroc Sows Average 8.1 Pigs Raised

In the past 3 years all Duroc litters (over 140,000) from which one or more pigs were recorded, averaged 10.2 pigs farrowed and 8.1 pigs raised. The National average for all hogs was 6.5 pigs per litter raised during this period.

For fast growing, MEAT-TYPE breeding stock, contact any of the good Duroc breeders listed below:

FORREST L. McCALLEY
Albarnett—2 SE

ROBERT J. REBER
Bloomfield—(R.R. 1) ¼ E of Sunnyslope Sanitarium

HERMAN F. ANDERSON
Bondurant—(R.R. 1) 3 E of Altoona on Hwy. 6, 2½ N

W. J. STEWART
Burt—(R.R. 1) 5 E, 1 N

WALTER RIEBSSELL
Calumet—(Box 678) ½ W

JOE PUDENZ & SON
Carroll—(R.R. 2) 1 N

HOWARD W. FERRIS
Castana—(R.R. 2) 7½ S of Mapleton on Rd. G

ALLIE GUENTHER & SON
Clarinda—(R.R. 5) 5½ SE

ELMO PFANDER
Clarinda—(R.R. 1) NW corner

JERRY CROWE
Conway—1 N of Gravity, 2½ E

BEN IVINS
Corydon—2 E on Hwy. 2

JOHN D. HALL
Cylinder—3 E, 5 N, ¾ E of Emmetsburg

WM. J. WELTE
Danbury—(R.R. 1) 2 N

LYLE A. CHAPMAN
Durant—(Mile Run) 2 W, 1¼ N

GLEN E. GIBBS
Earlville—(R.R. 1) 1½ N, ¾ W

A. L. DAHM & SONS
Early—(R.R. 2) 2 W

EDWIN GEERDES
Everly—(R.R. 2) 1 S, ½ E

OLIVER BRICKER
Farragut—3 S (Sale—Oct. 6)

H. L. CLARK
Floyd—(R.R. 1) 3 W, 5 N

L. B. OLSON & SON
Garner—5 N, 2 E

DONALD G. PETERS
Gilmore City—(R.R. 2) 5 S, ¾ W

JULIUS BUCH
Glenwood—(R.R. 2) 3 S of Silver City; or 3 N of Hwy. 34 on Hwy. 242

C. E. LOUDEN & SON
Grinnell—(R.R. 2) 3 N on Hwy. 146, 4½ W

HUGH LOUDEN & SON
Grinnell—(R.R. 2) 3 W, 3 N

S. E. ROBINSON
Guthrie Center—(703 N 2nd) NW corner of town

MILTON CRONBAUGH
Hartwick—(R.R. 1) 1 E

BRUCE HADDOCK & SONS
Hornick—(R.R. 2) 2 NE

CRAFT'S DUROCS
Hudson—2 NW on Hwy. 58

DOWIE E. SMIT
Hull—1 W, 1½ N

F. J. STREETER
Indianola—(R.R. 1) 3 W of Milo

CECIL & JOHN HUGHES
Iowa City—(R.R. 4) 7 SW

KAYWARD FARM
Iowa City—(R.R. 4) ½ SW (Sale Oct. 4; nite)

GEORGE T. PARSONS
Iowa City—(R.R. 7) ½ W, 1 S of Morse

IOWA FALLS DUROC BREEDERS ASS'N
Iowa Falls—(Sale Oct. 19)

KLEIN & NEUBAUER
Iowa Falls—(R.R. 1) ½ S, 2 W (Sale Oct. 6; nite)

JOHN F. WEBER
Irvington—4 S of Algona on Hwy. 169, 3½ E

MAX MILLER
Keosauqua—4 N on Hwy. 1

J. H. SAMUELSON
Kiron—(R.R. 2) 1 N, 1 E, 3 N, ¼ W

NELS LINDHART & SONS
Lehigh—(R.R. 1) 2½ NW

BERT E. MILLER
Lisbon—(R.R. 1) 1 SE

DONALD H. HARMS & SON
Little Rock—(R.R. 1) 1½ S, ¼ E

WESLEY HENDERSON
Madrid—(R.R. 2) 4½ S

GLENN ROWEDDER & SONS
Manilla—(R.R. 2) 2 N, 2½ E

WAYNE L. RANNIGER
Manning—(R.R. 2) 3 W, 3¾ N

J. R. CAPUTO
Marshalltown—(R.R. 2) 6 E on Hwy. 30, 1 N

E. I. NAGLE
Mason City—(R.R. 1) 4 W on Hwy. 106, 2¾ S

HARLAN P. HARPER
Melbourne—3 E, 3 S, ½ E

C. J. LIPPKE & SON
Merrill—(R.R. 1) 4 E, 1 S; or 5 S, 1 W of LeMars

HELLYER BROS.
Moravia—(R.R. 2) 5 W

MELVIN NELSON
Morning Sun—(R.R. 2) 2 N of Mediapolis, 2 W on Hwy 61

NEIL C. RASMUS
Mt. Union—(R.R. 2) E edge of town

PEARSON STOCK FARM
Radcliffe—2 E, 6 S (Sale, Oct. 3; nite)

KNOTEK BROS.
Riverside—(R.R. 1) 9 SW (Sale, Oct. 4)

A. H. STREETER & SON
Renwick—(R.R. 1) 4½ N, 3 E

RAY E. MASON
Russell—(R.R. 2) 9 SW, or 12 SE of Chariton

NEIL RICHARDSON
Sac City—2½ N, 3 E

N. W. TOPF & SONS
Salix—(R.R. 2) 1½ SE

FRED HATCH
Scranton—(R.R. 5) 3 E on U.S. Hwy 30; or 7 W of Jefferson

MILLER & BECKETT
Shenandoah—(R.R. 3) 8 E

A. G. GACKE & SON
Sibley—(R.R. 1) 2½ SW

BERT BROEK & SONS
Sioux Center—Farm 1, 3 N; Farm 2, 4 S of Hull (Sale, Oct. 8)

WILLIAM GEO. FLINT
Spencer—(R.R. 2) 5 N, 1¾ E

THEO E. THOMPSON
Thompson—1 N, ¼ W on Hwy. 9

RAY VITENSE & SON
Tipton—(R.R. 2) 2½ SE

ELMER WILLEY
Vincent—2 NE

E. W. KLINGAMAN & SON
Waterloo—(R.R. 1) S edge of city limits on Hwy. 63

CHARLES BARTHOLOW & SON
Washington—(R.R. 1, Box 162) 1 S on Hwy. 1 (Sale, Oct. 15, nite)

RAYMOND C. LONG
West Liberty—(R.R. 2) 6 NE

EARL OSSENKOP
Westside—(R.R. 2) 5 S, ½ W

VERNON OSSENKOP
Vail—(R.R. 2) 2 S, ½ E

Save this list for future reference. For additional information about the Duroc breed write

UNITED DUROC RECORD ASS'N

DUROC BUILDING — ROOM 3-A — PEORIA, ILLINOIS

EVERGREEN FARM'S POLANDS

SALE AT FAIR GROUNDS

COLUMBUS JUNCTION, IOWA

THURSDAY, SEPT. 29

NIGHT SALE STARTING AT 7:30 P. M.

30 Top Boars - 30 Choice Gilts

Selected from a good herd, well-grown, the true **MEAT-TYPE**, by **PIERCE ARROW** by The Thing out of Mischief Honor 2d, producer of prolific, fast-growing pigs. **LODESTAR** and **BATES HAVEN 24th** a top son of Grandmaster. We feature our grand champion boar and gilt at Louisa County Fair, which sell. Herd **BANGS** Accredited, breeding herd passed clean test for Leptospirosis and Leptotrichosis . . . one of the first purebred herds to have passed the Triple test. Buy from a reliable clean herd. Ask now for **FREE** catalog. Kindly mention this publication. Address

C. E. PIERCE, Evergreen Farm — COLUMBUS JUNCTION, IOWA

H. M. Duncan, Auctioneer

—SAVE MONEY THE EASY WAY—BUY SAVINGS BONDS NOW—

TAMWORTH
TYPE CONFERENCE
and
NATIONAL SALE
Hawkeye Downs Pavilion
CEDAR RAPIDS, IOWA
SEPT. 30th-OCT. 1st

SEPTEMBER 30th
Judging of Boars and Gilts.

OCTOBER 1st
Sale of Prize-winning Boars and Gilts. Also Adult and Junior Judging Contest.

Choice entries from leading herds. Rich breeding, modern type. Genuine **MEAT-TYPE** breed. Make plans to attend. Ask now for **FREE** catalog. Kindly mention this publication. Address

R. H. WALTZ, Secy.
Hagerstown, Indiana
TAMWORTH SWINE ASSOCIATION

Minnesota State Sale
TAMWORTHS
Fair Grounds Coliseum
SHOW 10:00 A.M.—SALE 1:00 P.M.
NEW ULM, MINNESOTA
SATURDAY, SEPT. 24
64 HEAD
40 Choice Boars
12 Open Gilts
12 Bred Sows

Selected with care from leading herds and include some of the breed's top blood lines. TAMWORTHS are ideal for cross-breeding. You will like them. COME! Ask now for FREE catalog. Kindly mention this publication. Address

L. D. VANGSNESS, Secy.
Kenyon, Minnesota

Belmont Stock Farm
TAMWORTHS
Sale at Bingley sale barn on No. 14
KNOXVILLE, IOWA
THURSDAY, SEPT. 22
Night sale starting at 7:30 P.M.
70 HEAD
6 Fall Gilts with litters
4 Spring Yearlings
45 Spring Gilts, by Meadowbrook Mac
14 Boars sired by M. B. Bell Boy 1st

MAC FARM, sell one of the great top boars by **MEADOWBROOK MAC,** a March 1, spring yearling. The place where champions are bred. Plan to attend. Ask for FREE catalog. Kindly mention this publication. Address

JERRY FORD, MILO, IOWA

Eastern Iowa
TAMWORTH BREEDERS
Sale at Fair Grounds
Tipton, Iowa, Monday, Oct. 17
65 Head (Night Sale) 8 P.M.
26 Boars - 39 Gilts

A grand offering selected from leading Eastern Iowa Herds and sired by TOP Boars of the breed. 26 Boars and 39 Gilts. They will please. Many from State Certified **BRUCELLOSIS** Free Herds, all tested prior to sale and Cholera immune. Plan to attend. Ask now for FREE catalog. Kindly mention this publication. Address

L. O. JAMES, Mgr., WEST LIBERTY, IOWA

POLANDS - YORKSHIRES
At farm southeast of
Storm Lake, Iowa, Thur., Oct. 6
Night Sale — 7:30 P. M.
POLANDS
30 Top Boars—30 Choice Gilts

The cream of the crop, well-grown, best in breeding, type and quality.

YORKSHIRES
20 Rugged Boars — 10 Good Gilts

The real **MEAT-TYPE** kind that will prove profitable. Ask now for **FREE** catalog. Kindly mention this publication.

EUGENE DUGAN & SONS
STORM LAKE, IOWA

CORRECTION!
AUCTION
SHETLAND PONIES
Stewart & Payne Pony Farms
YANKTON, SOUTH DAKOTA

The sale day for this Auction was listed incorrectly in the September 3rd issue. The correct date is

SUNDAY, SEPTEMBER 18
12:00 Noon

Benshoof & Brown
HAMPSHIRE SALE
WED., 1:00 P. M., OCT. 5
SALE AT
TREASURE ACRES FARM, BLAIRSBURG, IOWA
Farm is located 7½ miles east of Webster City on Highway 20, or 1½ miles west of Junction of Highways 20 and 69

40 TOP BOARS — — 20 CHOICE GILTS

★ EL-JON FARMS will offer 15 top boars and 5 excellent gilts selected from the entire spring pig crop farrowed at El-Jon Farms. They are all sired by their popular herd sire that stood third in a strong Junior Yearling class at the Iowa State Fair.

★ TREASURE ACRES' consignment will include 20 top boar pigs sired by some of the top boars of the breed. Several of these pigs stood up well in class at 4 Midwest State Fairs. Also 15 choice gilts of herd sow quality. Six of these gilts will sell with breeding privileges to our herd sire:

IOWA LAD
1955 Iowa Grand Champion Boar

All Bangs tested, and entire offering inspected and approved by a licensed veterinarian, and are healthy in every way. Plan to attend. Ask now for your **FREE** catalog. Kindly mention this publication. Address either.

EL-JON FARM
Rose Hill, Iowa

TREASURE ACRE FARMS
Blairsburg, Iowa

LANG HAMPSHIRES
SELL TUESDAY, OCTOBER 4th, 1:00 P. M.

HI-CHOICE—PR boar, the fourth Certified Meat Type boar in America, and last year's All-American Junior Yearling. His sons will sell.

Sale at the Brooklyn Sale Pavilion

BROOKLYN, IOWA
25 Boars — 50 Gilts

Boars from our last year's fall crop sold into 16 states. Two of six All-American boars last year were purchased here. This will be the first sale in Iowa by a herd that has been headed by a Certified Meat Type sire.

THE SALE OFFERING WILL BE REPRESENTED BY 19 PR LITTERS THAT AVERAGED 489.4 LBS. PER LITTER, OR 9.44 PIGS PER LITTER RAISED AND AN AVERAGE WT. OF 51.8 LBS. PER PIG AT 56 DAYS OF AGE.

7 BOARS BY HI CHOICE—PR boar 109, the 4th Certified Meat Type boar of the breed, and last year's All-American Junior Yearling.

9 BOARS BY BEL AIR—A son of General Ike from a Mr. Block dam. More litters have been Certified from dams by Mr. Block than from dams by any other boar of the breed.

3 BOARS BY PRINCE ALBERT—A son of King Edward, PR boar 93, and the 1st Certified Meat Type sire in America.

5 BOARS BY SUPREME QUALITY—A son of Golden Delight, another PR boar. Supreme Quality sired 16 PR litters this spring from his first crop of pigs.

Daughters of two All-American sows will sell, and also daughters of Texas Janet, Reserve Champion sow at the 1954 Iowa State Fair.

Carcass cut results will be available sale time. All are **Bangs** tested. Send today for your **FREE** catalog. Please mention this publication. Address

ALLEN LANG & SON, BROOKLYN, IOWA

DUNCAN and SMYLIE
HAMPSHIRE SALE
Mon. Night, Sept. 26
Sale at 8:00 P. M., in the new 4-H barn at the fairgrounds in
COLUMBUS JCT., IA.

MR. PEEPERS, RESERVE PREMIER SIRE and 2nd Senior Yearling Boar at the 1955 Iowa State Fair.

25 Spring Boars
75 Spring Gilts
50 Gilts for the commercial man selling in groups to suit purchaser.

About 75% of the offering is sired by MR. PEEPERS (pictured above). Rest are by GOLDEN FLASH, Reserve Premier Sire at the 1954 Iowa State Fair. Our winning pigs at the recent State Fair, including the 1st and 6th Junior Spring Boars, and 3d Senior Spring Boar, will sell. Bangs tested and clean. Send now for your FREE catalog. Please mention this publication. Address

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THIEDE'S SHORTHORNS
Gregory Livestock Pavilion
GREGORY, SOUTH DAKOTA
Saturday, October 1, 1955
12 BULLS 20 FEMALES
125 CLUB CALVES
Steers and Heifer Calves

Bulls, rugged yearlings by **Sunrise Consul,** one by **Killearn Conquest 28th.** Three (Polled) bulls by **Kintyre Sentry X,** half-brother to $3,150 National Congress Champion. The Females, 10 desirable bred cows and 10 choice bred heifers.

The 90 steer calves and 35 heifer calves selected from a 400 head registered cow herd, headed by 10 outstanding bulls. An ideal opportunity for 4-H members. Ask now for Free catalog. Kindly mention this publication. Address

MERVIN F. AEGERTER, Sale Mgr.
Seward, Nebraska
Otto Thiede & Sons, Owners, Burton, Nebr.

ANGUS DISPERSION
Sale at farm, 1 mile north of
LA GRANGE, MO.
MONDAY, SEPT. 26th
Starting at 10:00 A. M.
150 Females—15 Bulls

A grand group of richly-bred cattle. **ERICA'S BARBARA OF M.,** highest priced female ever sold in a Missouri State Sale. 3 of her outstanding offspring, 30 splendid cows and calves. Choice bred cows and heifers and open heifers. Herd bull material. **EGO BARDOLIER G. R., BARDOLIER'S BUSTER L. L., BANDOLIER 152nd OF WILTON** and **EILEENMERE L. L.** The families include Ballindalloch Jilt, Eulima (Tolan Strain), Georgina, Blackcap Beside, Miss Burgess, Barbara, and other popular families. Several prospective show animals. 31 years of constructive breeding. **COME!** Ask now for **FREE** catalog. Kindly mention this publication. Address

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LA GRANGE, MISSOURI

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BOAR AND GILT SALE
Fair Grounds
BLUE EARTH, MINN.
(Night Sale) Tues., Sept. 27th
TOP ENGLISH BLOOD LINES

Choice individuals, well-grown, pleasing type and quality. Buy the blood of Champions. Ask now for **FREE** catalog. Kindly mention this publication. Address

HARLAN HANKS, Winnebago, Minn.
Oakvale Farm

YORKSHIRES
Sale Baty's Barn, 7 miles north on Route No. 29 of
Peoria, Illinois, Fri., Oct. 7th
Night Sale — 7:30 P. M. (D.S.T.)
60 All straight ENGLISH Breeding
BOARS — BRED GILTS — OPEN GILTS
Many by 1955 Illinois Grand Champion
BRITISH PACKWOOD 039G

1 Boar and 2 Bred Gilts, recently Imported from Scotland. All our 1955 Illinois State Fair winners sell. Our herd won Supreme Exhibitor award 1954 Illinois and Wisconsin State Fairs. **COME!** Ask now for FREE catalog. Kindly mention this publication. Address

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(C.M.R. 158) Peoria, Illinois

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KNITTING PACKAGE
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1 pr. Knitting Needles
1 set Sock Needles
1 Crochet Hook
1 Darning Needle
20 Sewing Needles
3 yds. Binding Tape
36 Buttons
50 yds. of Thread
12 oz. Toilet Soap
1 Tape Measure

Send your money to
"CARE"—New York

Dean Snyder HAMPSHIRE SALE

HI-CHOICE
A Certified Meat Type Sire

Thurs., Sept. 29th

Sale at 7:30 P. M. at Blau Velt Angus Farms on U. S. 67, 21 miles south of Monmouth, Ill., 40 miles southeast of Burlington, Iowa, 1 mile south of our farm, or 10 miles north of

Macomb, Illinios

SELLING 120 HEAD
40 Registered Boars
50 Registered Gilts
30 Unregistered Open Gilts

BUY FROM THE HERD THAT HAS CERTIFIED MORE BOARS, AND HAS PRODUCED MORE CERTIFIED LITTERS AND MATINGS THAN ANY OTHER HERD OF THE BREED.

OFFERING SIRED BY:

HI-CHOICE PR109CMS 603207—1954 All American, and a Certified Meat Type Sire.
FUTURAMIC 652503—Will probably be certified by sale day.
KING EDWARD PR93CMS 602301—First certified sire of the breed.
One litter by LORD EDWARD, the Reserve All American top selling boar in our last fall sale at $2,225.
One litter by GREAT WESTERN 3d, 1955 Illinois Grand Champion.
One litter by JUBILEE MEDAL.

There will be Certified litters, Certified matings. All from PR litters. PR weight, rate of gain, and carcass cut-out measurements will be given on every litter sold. Send mail bids to me in care of fieldman or call Blau Velt Angus Farms sale day through Good Hope, Illinois. Send now for your **FREE** catalog. Please mention this publication. Address

DEAN SNYDER, GOOD HOPE, ILLINOIS

Auctioneer, G. H. Shaw — Arch Stone, Fieldman

McGUIRE HAMPSHIRES

Sell Mon. Night, Oct. 3rd

Sale at 7:00 P. M. in the sale barn at the farm, 1 mile north of

WISNER, NEBRASKA

100 HAMPSHIRES

75 Spring Boars — 25 Spring Gilts

The gilts will be offered in groups to suit the purchaser.

IF YOU WISH TO ADD LENGTH OF BODY TO YOUR HERD, THESE BOARS WILL DO IT. THEY ARE BIG, RUGGED, FARMER MEAT-TYPE BOARS.

Offering sired by:

MISCHIEF'S EDWARD BY KING EDWARD
KING GEORGE 3d
KING HENRY 8th
INVINCIBLE

The pigs shown at the Iowa and Nebraska State Fairs will sell in this sale. Send now for your **FREE** catalog. Please mention this publication. Address

McGUIRE HAMPSHIRE FARM, WISNER, NEBRASKA

Auctioneer, Dick Kane — Arch Stone, Fieldman

LETTOW'S BETTER HAMPSHIRES

Sale in F.F.A. Building

IOWA FALLS, IOWA, WED., OCTOBER 5th

Night Sale — 7:30 P. M.

50 WONDERFUL BOARS

One of the best offerings of the year, selected from two great herds, which have been long-established. They are genuine prospects, well-grown, with style, type and merit. The true **MEAT-TYPE**, some will weigh **300** lbs. now. They are sired by **GOODENUF, GOOD DEAL, SPECIAL SIGN, GOLDEN FLASH, SPECIAL BUILDER** and **ROYAL NEWS**, tops in blood lines and a variety to please anyone. Do as many others have done, select your herd boar from the **LETTOW** herd. Ask now for **FREE** catalog. Kindly mention this publication. Address either,

HERBERT J. LETTOW — Alden, Iowa
CARL LETTOW — Iowa Falls, Iowa

MEEKER HAMPSHIRES

Sell Friday Night, Sept. 23rd

Sale at 7:30 P. M., at the Wapello Sale Barn

Wapello, Iowa

60 Spring Gilts — 30 Spring Boars

Mostly Sired By:

★ THE LEADER

Grand Champion Boar at the 1954 Iowa State Sale, and 2nd prize fall boar at the 1954 Iowa State Fair. Also sire of the Grand Champion Boar at the 1955 Iowa State Sale.

Offering 100% P.R. tested. Pigs from 12 P.R. litters will sell. Also several litters from P.R. sows. This is a meat-type offering with plenty of weight for age. State Bangs accredited herd No. 47. Send today for your **FREE** catalog. Please mention this publication. Address

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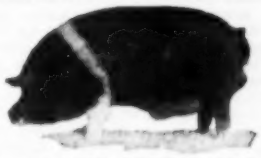
Located just north of state line west of Albert Lea, at farm 4 miles south, 3 miles west of



WELLS, MINNESOTA

TUESDAY, SEPTEMBER 27th

Night Sale starting at 7:30 P. M.

40 HERD BOAR PROSPECTS

A truly great offering by **ROYAL PAT**, the $1,000 boar and **CLEARVIEW COUNT**, sire of All-Americans. We offer Boars out of 1st **Produce of Dam**, also 2nd **Get of Sire**, 1955 Minnesota State Fair; half brothers to Reserve Champion, **Pen of Barrows**, over All Breeds at State Fair. One by a **CERTIFIED** Boar . . . out of a **CERTIFIED** litter. All beautifully grown, rugged and will please. **COME!** Ask now for **FREE** catalog. Kindly mention this publication. Address

GEORGE LORENZ, WELLS, MINNESOTA

IOWA HAMPSHIRE SALE

THURSDAY, SEPTEMBER 22
CEDAR RAPIDS, IOWA

At Hawkeye Downs

SHOW—4:30 P.M. SALE—7:30 P.M.

30 SPRING BOARS — 30 SPRING GILTS

An opportunity to purchase your next herd boar, or foundation brood sows. Winners at many leading shows have been bought and sold through the Iowa State Sale. Come early and attend the afternoon show.

ATTENTION COMMERCIAL MEN: In the past, although the tops have sold above the reach of the commercial men, many good boars and gilts have sold at very reasonable prices. In many cases, commercial men have been able to purchase more meat-type quality for less money than in many other sales. Send now for your **FREE** catalog. Please mention this publication. Address

EMERY RIEMENSCHNEIDER, Secy., PIERSON, IOWA

Auctioneer, G. H. Shaw — Arch Stone, Fieldman

QUALITY HAMPSHIRES

Mitchell County Fair Grounds

OSAGE, IOWA

WEDNESDAY, SEPTEMBER 28th

Night Sale — 8:00 P. M.

40 BOARS
40 GILTS

Selected from two great herds, all well-grown, of today's type with heavy bone, length and quality. Sired by **CLASSY BOY, BLUE BOY, SPECIAL DISPLAY, GOLDEN DREAM**, and others. Best breeding. Boars will weigh from **250** to **300** lbs. Safe for in sound breeding condition. Best commercial hog men purchase more boars and gilts in our sales than any other because they are the kind that are in demand . . . they have length, heavy-bonded, with the genuine **growing-ability** bred into them. Plan to attend. Ask for **FREE** catalog. Kindly mention this publication. Address either,

FIELD & CHRISTIANSEN — Nora Springs, Iowa
DON YUSTON — Kasson, Minn.

Auctioneer, John Hall

LEE NORRIS HAMPSHIRES

BOAR AND GILT SALE

Sale at farm, 1 mile west, 4 miles south and 1 mile west of

FREMONT, IOWA, WED., OCT. 12th

Night Sale — 7:30 P. M.

30 BOARS — 100 OPEN GILTS

Choice, growthy, lengthy **MEAT-TYPE** Hampshires by **GENERAL IKE** and **SPECIAL STREAMLINER**. We are selling the 1955 Missouri **Junior Champion** Gilt and other winners **SPECIAL**; 4h breeding service to **4-H** and **F.F.A.** and additional money on prize winnings. Top **QUALITY** at farmers' prices. **COME!** Ask for **FREE** catalog. Kindly mention this publication. Address

LEE C. NORRIS — **(Supper at Farm)** — **FREMONT, IOWA**

Arch Stone, Fieldman

Prize-Winning Hampshires

Sale at farm, ½ mile north of

MALLARD, IOWA, THURS., OCT. 6th

Night Sale — 7:30 P. M.

75 HEAD—40 BIG BOARS, 10 CHOICE GILTS
25 SPLENDID COMMERCIAL GILTS

Offering well-grown, the true **MEAT-TYPE**, sired by **PRETENSE FAIR PLAY**, Premier Sire, Iowa State Fair. Others by **PRETENSE WESTERN MODEL, GREAT WESTERN, POCAHONTAS**, the All-American. All our winners at State Fair and Spencer sell. Best in breeding, pleasing in quality. **COME!** Ask now for **FREE** catalog. Kindly mention this publication. Address

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First in Leadership! First in Quality! First in Championships!

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M. B. ANGUS FARMS

PRINCE QUALITY OF SUNBEAM

His progeny have quality and merit. Several excellent young bulls by him and our other herd bulls, GAR QUALITY M. B. by Prince Quality of Sunbeam, WAGNA'S PRINCE ERIC 21st by BLS Prince Eric 24th. We have the most fashionable families. Genuine Herd Bull Prospects. Act now. Farm 12 miles S. W. of Iowa City. Visitors always welcome. Phone Sharon Center 2 on 23.

MAAS BROS., RIVERSIDE, IOWA

Meredith, Meredith, Jr., and Donald

CHOICE ANGUS

BULLS FOR SALE

Sons of EILEENMERE W. B.

Grandson of Ellenmere 487th and Ellenmere Eric by EILEENMERE W. B. They are 12 to 24 months old, ready for service. Herd bull prospects for Breeder or Farmer. They will sire top cattle. Visit farm any time.

I. E. KEMP MARION, IOWA

KATHMAR ANGUS FARMS

Want a Bardolier?

DONAHUE, IOWA

HERD SIRES:
BARDOLIER 40th OF WILTON
son of Black Bardolier of White Gates 3rd
BARDOLIER 7th OF WILTON
son of Leader's Quality Bardolier
Females, ANNUITY, BEAUTY OF HAYSTON, MISS SUMMER BURGESS, BLACKCAP BESSIES, ELBAS, ERICAS, HATHERAS, and many others.

DR. C. E. BLOCK

719 1st Natl. Bldg. Davenport, Iowa

HEREFORDS

FOREST GROVE FARM

One of Iowa's best herds of HEREFORD CATTLE

Bulls in service

WHR Puritan Mixer 1st

By WHR Dual Mixer

FGF Pioneer Lad 15th

Champion Open Class 1951 Iowa State Sale, by Pioneer Lad 2d, Champion 1948 Iowa State Sale. Choice young bulls for your inspection. Farm 6 miles east, ½ mile south.

Herb Killian, Owner, Cedar Rapids, Ia.

PAUL WOLF, Manager

DOLLANDER HEREFORD FARM

Selling 50 Head Registered Herefords

28 FEMALES — 22 BULLS

Blood lines of Proud Aster and J. E. Battle Real 2d. Sale at Luverne Livestock Pavilion.

LUVERNE, MINN., SEPT. 29—1:00 P. M.

Write for catalog.

VIRGIL L. DOLLANDER, MAGNOLIA, MINN.

BRAEMOOR PLACE HEREFORDS

Herd Established in 1924

30 very choice rugged bulls suitable for Herd Bulls. Carlots or groups to please.

Carl H. Goeken, Atlantic, Iowa

ROBERT • GILES • LESTER • SD & S • VIRGIL • JOE • HORBERT

PRODUCTION SALE — OCTOBER 8

Quality Hereford Cattle

JOHN DITTMER & SONS, LACONA, IOWA

Double AA Hereford Farm

Offers choice Registered Horned HEREFORDS, sons of GOLDEN ASTER 56th 672891. Visitors always welcome.

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SKOW'S STOCK FARM

Horned Hereford Bulls, serviceable age. Also open heifers. Calfhood vaccinated for bangs. Sired by TH LARRY ONWARD 35th 6745180, son of Thorp's famous MW Larry Onward 13th. Reasonable.

JOSEPH A. SKOW WESLEY, IOWA

Hereford Bulls and Females

Choice registered cows and heifers from 1 to 4 years old. WHR and GOLDEN ASTER blood lines. Also choice young bulls same blood lines.

DAN MEYER, FT. ATKINSON, IOWA

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POLLED HEREFORDS

WESTHAVEN PLACE

Breeding stock, both bulls and females, all ages, for sale at all times.

HERD BULLS
CAPTAIN PLATO 61st
MCV DOMINO
GPH PLUS PERFECT 4th
WP CONQUEROR 30th

Always welcome at our farm.

WESTCOTT BROS. DENISON, IOWA

CURRAN POLLED HEREFORDS

For Immediate Sale

Choice Herd Bull prospects by CSF CHOICE DOMINO 2d. Herd federally accredited, all females officially calfhood vaccinated.

Curran Stock Farm, Mason City, Iowa

POLLED HEREFORDS

We have some strong aged bulls ready for heavy service for sale and a fine lot of young bulls coming on for both breeders and farmers. One of the breed's best known herds.

Headed by: BATTLE MIXER, P. ANXIETY ASTER. Come look them over.

P. M. CHRISTENSEN & SON, LONE ROCK, IA

YEARLING BULLS

Good growthy Polled Hereford bulls sired by Modest C. Lamplighter 7th for sale.

ERNEST DAY & SONS GRIMES, IOWA

10 miles northwest of Des Moines

SHORTHORNS

Choice SHORTHORN Herd Bull Prospects by LAWTON PRIAM and BEAUFORT BAYARDO (Imp.). Also several outstanding POLLED SHORTHORN bulls by the great imported sires. Write or visit farm.

LAWTON PRIAM (Imp.)

BEN G. STUDER, WESLEY, IOWA

SHORTHORN BULLS

Choice bulls offered, dark colors, 9 to 17 months old. Younger bulls by EDELLYN GOLDEN PRINCE by Uppermill Metaphor (Imp.). REASONABLE. (Farm 9 miles W. 1½ miles N.)

REX WALKER WINTERSET, IOWA

POLLED SHORTHORNS

SHADYBROOK FARMS

The place to buy that better Polled Shorthorn bull for less money, with that extra weight for age, sired by our two herd bulls that weigh well over a ton each.

BERT A. HANSON, VERNON CENTER, MINN. Farm 10 miles north of Iowa line on U. S. 169

STOCKERS AND FEEDERS

Central Wisconsin

FEEDER CATTLE SALE

Just North of Wisconsin Dells at Adams County Fair Grounds

FRIENDSHIP, WIS., THURS. OCT. 6

Starting at 12:30 Noon

350 HEAD

Top quality WISCONSIN raised Feeder calves and yearlings. Lotted according to sex, age, breed, weight and general quality. Sold in lots of 5 to 25.

CENTRAL WISCONSIN LIVESTOCK PRODUCERS' ASSN.

Friendship, Wisconsin

Western Range Stockers & Feeders

Bought on order at the Omaha Stock Yards. All transactions under Government supervision and stock weighed on Government inspected scales. Write

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Notice—Dairy Calves. If calves are shipped or delivered on approval, full responsibility is assumed when purchaser accepts delivery. Remember calves are young, some are small, which must be considered when buying.

WISCONSIN AND MINNESOTA Dairy Cattle. Choice HOLSTEIN and GUERNSEY dairy heifers from 350 to 900 lbs. All heifers sold by the pound. HOLSTEINS 13c per lb. and GUERNSEYS 12c per lb. Also spring heifers and cows. Most these heifers are from artificial breeding and a large number of them are calfhood vaccinated. Buy from the largest dealers in the Northwest. Write or call.

LINK BROTHERS, INC. MINONG, WIS.

LIVESTOCK NEWS

The **Angus** dispersion sale for the G. J. Norton division of Wilton Farms, Wilton Junction, Iowa, Aug. 27 attracted a large crowd of spirited bidders. There were buyers present from all parts of Iowa and from Missouri, Wisconsin, Illinois, Indiana, Tennessee, Alabama, Minnesota and North Dakota. However, the heaviest buyers were from Iowa, Illinois, and Minnesota.

19 bulls averaged $703
79 females averaged $510
89 lots averaged $552

The top of the sale was the lot two bull, Bandolier 293d of Wilton, the junior herd sire and show bull. His first calves were present and displayed a lot of good quality. He sold for $4,000 to Hill Top Farm, Tipton, Iowa. The second high was the senior herd bull, Bandolier 152d of Wilton. His buyers were Ames & Knudson, Ames, Iowa, Ronald Gauger, Muscatine, Iowa, paid $1,000 for lot nine, Bandolier 326th of Wilton.

The top on females was lot 41 cow and calf. The cow, Miss Burgess 6th of Wilton, sold for $1,000 to Dillenbeck Farms, Geneseo, Ill. The heifer calf went to Henry Bartenhagen, Columbus Junction, Iowa, for $360. The top individual was lot 43, Blackcap Bessie 13th of Ada and her heifer calf. They went to Henry McCleary, Packwood, Iowa, for $1,275. Lot 42 was next with the cow, Miss Burgess 9th of Wilton, going to Hill Top Farm for $900. The heifer sold for $250 to Snakenberg Farms, Webster, Iowa, for $250.

The cattle were sold in practical breeding condition right off the pastures. The sale was managed by Otto Nobis. Auctioneers were Johnston and Good.

Legumes Carry More Steers Per Acre

Yearling steers averaging about 600 pounds in weight gained at strikingly different rates on legume pasture and grass pasture from mid-May to mid-June at the Dixon Springs Experiment Station of the University of Illinois.

George F. Cmarik, first assistant in beef research at the station, reports that the legume pastures were able to carry four steers to the acre during this period, while the grass pastures could carry about two head to the acre.

Steer gains on legumes varied from 200 to 340 pounds to the acre with an average of 265 pounds, Cmarik says. Average daily gain for six legume pastures was about one and three-fourths pounds per steer. The legume pastures were seeded mainly to alfalfa, red clover and ladino, and the alfalfa was just about right for making a good hay crop when the steers were turned onto these fields.

On the other hand, the grass pastures were seven-year-old seedings of various grasses. Originally these fields all contained good stands of Ladino clover, but since the dry years recently it has almost disappeared.

Gains on the grass pastures varied from 36 to 88 pounds and averaged 63 pounds per acre during the month. Average daily gain per steer for six grass pastures was about nine-tenths of a pound.

Cmarik says the grass fields that contained the highest percentages of Kentucky bluegrass, orchard grass and bromegrass produced the highest animal gains. A field of mostly wild grasses produced low gains, but they were still better than gains on a good fescue pasture. These results bear out the recommendations of fescue as a winter or early spring pasture forage crop.

Pounds of dry matter needed to put a pound of gain on the steers also varied greatly with the main forage available, Cmarik points out. The legume pastures needed an average of 20 pounds of dry matter to put on a pound of gain compared with 34 pounds for the grass pastures.

Highest dry matter requirement for the legume pastures was 27 pounds and the lowest 16 pounds, compared with a high of 51 pounds and a low of 16 pounds for the grasses. You can see that altho the grasses needed more dry matter over all to produce a pound of gain, still the highest gaining grasses put on gains well within the production range of the legumes. The highest requirement of dry matter was on the wild grasses and fescue pastures.

If you go back to the March and April average daily gains on grass pastures, you will find them equal to or better than the May-June legume gains. However, per acre gains were higher on legume pastures because of their greater carrying capacity.

Results of these pasture feeding tests show that you'll get better yield and higher animal gains from either legume-grass pasture mixtures or pure stand legume seeding harvested at the right time, Cmarik says.

Mixed pastures are probably a little better than straight legume seedings for cattle and sheep because it's easier to control the bloat problem on them.

To cut down the bloat problem in cows on legume pastures, limit the time on pasture to half an hour in the morning and afternoon when they first go on, and gradually increase the time until they get used to the lush forage.

The similarity of viruses that cause abortion and influenza in horses is so great that only highly technical serological tests can tell one from the other.

Red clover is one of the most important and widely known of all cultivated legumes.

DAIRY CATTLE

WANTED—ORDERS for high grade Wisconsin dairy heifer calves. Holstein and Guernsey. Bangs tested and vaccinated for shipping fever. Delivered by our truck, C.O.D. your farm in lots of 5 or more. Dairy heifers, open, bred and springing. Also cows available. Jay Sheafor, Jr., Richland Center, Wisconsin.

TOP QUALITY

Holsteins, Guernseys, Brown Swiss.

All ages. Priced right.

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Wisconsin Holstein-Guernsey

Dairy heifers shipped to you on APPROVAL from WISCONSIN high production herds. Don't be misled, buy direct. Ask for FREE price list.

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WISCONSIN'S GOOD QUALITY

HOLSTEIN AND GUERNSEY DAIRY HEIFERS AND HEIFER CALVES

Any age. Will deliver any sized order on approval by truck

ROSS BLOTT, Box 527, MUKWONAGO, WIS.

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CHOICE COWS, HEIFERS AND CALVES

Delivered on approval.

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REGISTERED GUERNSEYS

FOR SALE: 40 head, including 20 daughters McDONALD FARMS FORE PUBLICAN, double grandson DOUGLASTON LADY AUGUSTA, out of McDONALD FARMS HELENA, 734 lbs. fat. 8 years. Records. Vaccinated. Negative.

L. E. DENNIS, 512 W. 19th St., Sterling, Illinois

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HOLSTEINS FOR SALE

MONTH OLD FOUNDATION HEIFERS.

Tested. Delivered your door collect. 50 or more on hand. Inspection invited.

GLENN CLARKE, Rt. 10, SO. ST. PAUL, MINN

"I wasn't at all worried about you returning my hay rake, LeRoy. Here's the deed to your farm back."

FEED KENT

FRED ROBERTS SAYS:

SATISFACTION IS GUARANTEED with the Kent Pork Making Program! Feed Kent 35% Pig & Sow to your bred sows. Feed high calorie Kent Pig Nuggets to your pigs.

"THE FEED WITHOUT A FILLER"

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Announcing M&M Celacto

Worms or Weight? You CAN'T have both!

SWINE WORMING PRE-MIX

Contains CADMIUM

HERE is the safe, easy way to worm pigs. After many tests we have prepared an efficient Pre-Mix containing Cadmium so that farmers can get rid of round worms in pigs at low cost by simply mixing **M & M CELACTO SWINE WORMER PRE-MIX** in the feed, according to directions, it KILLS 87% to 98% of WORMS. Wormy hogs lose money for you.

LIVESTOCK M&M PRODUCTS

FREE! M & M SERVICE MEN WORK with farmers in overcoming WORMS, RHINITIS, SCOURS, and other troubles. THEIR SERVICE IS FREE. Write us at any time.

M & M Livestock Products Co. Eagle Grove, Iowa

HOLSTEINS

HOLSTEIN DISPERSAL

At Farm Near
HECTOR, MINN., TUESDAY, SEPT. 27
70 REGISTERED CATTLE

20 daughters of son of **CARNATION IMPERIAL IDEAL.** Junior Herd sire a son of "RAVEN". Herd has a 411-lb. butterfat average. Cows to freshen this fall, bred and open heifers and heifer calves. Vaccinated. Ask for FREE catalog. Address
FRANCIS DARCEY
Sale Mgr., Box 143, WATERTOWN, WIS.
D. J. Ginsberg, Owner — Hector, Minn.

HOLSTEIN HEIFERS

37 large growthy, nicely-marked **HOLSTEIN** heifers to freshen in October. Calfhood Vaccinated. Act Now.
HAROLD PHILLIPS, Star Route, Palmyra, Mo.

JERSEYS

JERSEY BULL

Ready for service April 17, 1954. Sire, proven 507 lbs. on 16 daughters. Dam, D.H.I.A. record 8,858 milk, 507 lbs. fat, 319 days, 3 years. Both Classified "Very Good." Also several young cows. REASONABLE.
FRED J. PAILLUS HAMPTON, IOWA

JERSEY BULL CALVES

Choice registered from **1** to **11** months old. Best blood lines. Very reasonable. **T.B.** and **Bangs** tested. Write or see us.
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For the MEATIEST, most UNIFORM, BEST DOING hogs you've ever raised.
Hold national feeding records, excellent grasers, average litter 9.91 pigs, best disposition.
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"Nebraska's Oldest Breeder"
Now offering **25** choice registered boars and **25** open gilts. Ready for delivery September 1st.
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Choice Boars — ready now. Genuine **MEAT-TYPE**—not an imitation. Outstanding cross on any breed. All Bangs free. Sale (Site) Aug. 5th.
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Choice Purebred **Boars** and **Gilts** offered. Large selection. Also two good gilts to farrow last of September. Brucellosis Tested Herd. **Reasonable.**
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Choice litter, registered, pedigrees furnished. **SABLES** and **TRI-COLOR.** Two to six months old $25.
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World's Largest Kennel offers 500 Pointers, Setters, Straight Cocners, Combination Hounds, Rabbit and Squirrel Dogs, Beagles, Fox and Wolf Hounds. Trial. Prices reasonable. Catalogue free.
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Slow Down and Live

Faster Growth: Barrington, Illinois: At the Ful-O-Pep Research Farms, scientists for the Quaker Oats Company are constantly searching for ways to improve their feeds. Two years of testing resulted in a new hog feed, Ful-O-Pep Pig Bracer...containing Arsanilic Acid. A five-week test on pigs weaned at six weeks of age showed...

13% faster gains on 22% less feed

with arsanilic acid in hog rations

YOU can send your hogs to market faster...on less feed ...when your hog feeds contain Arsanilic Acid – as shown by recent tests conducted by the Quaker Oats Company.

In tests, 50 pound pigs fed a ration containing Arsanilic Acid and an antibiotic increased average daily gains 23% over a control group.

Arsanilic Acid also promotes faster growth during the entire growing period–makes for greater uniformity, fewer runts. In 90 pound pigs that had been gaining slowly, the Arsanilic Acid-antibiotic combination increased daily gains 50% over a control group fed a ground mixed ration. *Feed efficiency was improved 22% to 32% by the Arsanilic Acid combination.*

Research proves, too that Arsanilic Acid works with antibiotics for the safest, surest protection against scours. A combination of Arsanilic Acid and antibiotics gives better results than either one alone.

Even feeds already fortified with antibiotics will give better performance when Arsanilic Acid is added. In University of Minnesota tests, pigs receiving a ration supplemented with antibiotics and Arsanilic Acid made greater gains and showed better feed conversion than pigs receiving the same ration without Arsanilic Acid.

Almost every month, more and more practical farm tests are proving that Arsanilic Acid is an outstanding, effective growth stimulant that offers hog producers a new way to speed gains and cut costs at the same time.

Arsanilic Acid is produced by Abbott Laboratories and sold to feed manufacturers under the trade name of Pro-Gen® for the purpose of promoting faster growth and greater uniformity... on less feed...plus protection against scours.

Ask your feed dealer for hog feeds containing Arsanilic Acid. Look for it on the feed tag!

Abbott LABORATORIES

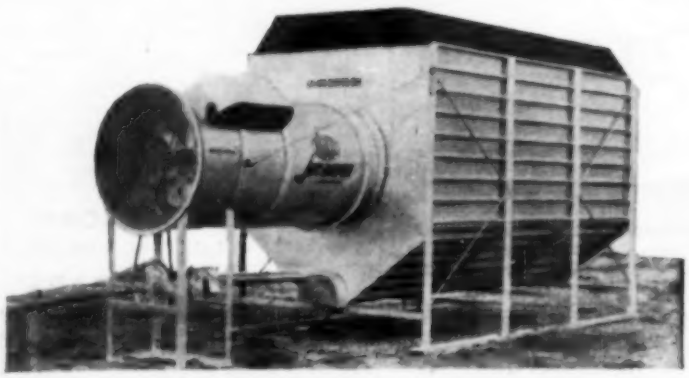
CHEMICAL SALES DIVISION, NORTH CHICAGO, ILLINOIS

Producers of Fine Pharmaceuticals Since 1888.

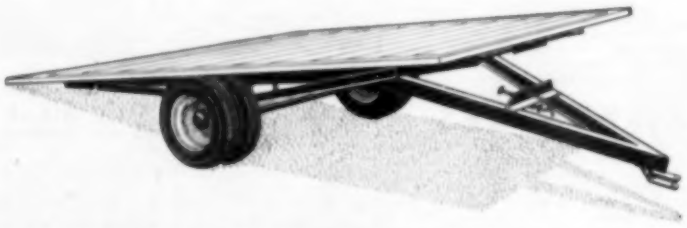
For further information about any of the products shown here, write to Wallaces' Farmer and Iowa Homestead, Des Moines, Iowa.

Soil ditcher has 12-inch square nose. Cuts a flat-bottomed ditch 24 to 36 inches deep. Designed to cut irrigation or surface drainage ditches. Hydraulically controlled. Announced by Soil Mover Co.

Lantern is made for use around the home, or as a trouble light around the farm, or for the car. Twin light head attaches to battery case containing two 6-volt batteries. Batteries said to last two and one-half to four times as long as ordinary single battery types. Lightweight lantern is made by Burgess Battery Company.



Crop dryer is powered by tractor power-take-off. Can be run, however, by gas engine or electric motor. Said to use semi-indirect heat. Portable and stationary models, with and without drying bin. Made by Habco Manufacturing Company.



Drive-on platform trailer is made to haul farm machinery, buildings, baled hay, feeders, crates, etc. Low bed makes quick, easy loading. Loads and unloads without unhitching. Made in four models, three to six tons capacity, by Manly Manufacturing Company.

What's Ahead...

DESPITE the August drouth, feed supplies for the year ahead will be greater than for last year. That appears certain from September 1 crop estimates.

Homer Hush

The September report estimated the U. S. corn crop at 3.1 billion bushels, down 364 million from the August 1 estimate.

Grain sorghum was estimated at 227 million bushels, down 39 million from the August 1 estimate.

There was no change in oats and barley estimates. So now we can estimate the feed from new crops compared to last year's production.

ON A CORN EQUIVALENT basis, our new corn, oats, barley and grain sorghum figures out to equal 4,481 million bushels of corn.

Last year, production of the same grains equaled 4,240 million bushels of corn. Feed grain increase for 1955 crops over 1954 crops is 241 million bushels in corn equivalent. (Two bushels of oats is figured to be worth one of corn, and grain sorghum and barley at 90 percent of corn value.)

So the increase in feed grain crops over last year is 5.7 percent. And it's unlikely that later crop estimates will make any big change in the September figures.

CORN, HOWEVER, will be much scarcer in Iowa than it was last year. The Iowa crop was estimated September 1 at about 460 million bushels with a per acre yield of only 43 bushels. Reduction is from an August estimate of about 600 million bushels and 56 bushels per acre. Last year's crop was 540 million bushels, average yield, 52.5 bushels.

SOYBEAN SUPPLIES will be below August estimates but big for the nation. U. S. total as estimated September 1 is 45 million above last year's record crop. August 1 estimate was 420 million bushels. September 1 estimate was 387 million bushels, down 33 million.

The Iowa soybean crop was estimated September 1 at 42 million bushels, 11 million below the August estimate. And about 14 million below the record 1954 crop.

PRESENT ESTIMATES indicate ample feed grain and protein meal supplies for the nation in the next year. But some local areas will be short of grains. The western Corn Belt will be relatively shorter of feed grains than will the rest of the country.

NO REALLY FREE market in wheat can be expected in the near future. Around 96 percent of the world's wheat is produced under price supports or production incentives.

CALIFORNIA FEEDERS will be competitors with Corn Belt feeders for feeder cattle this year. California has been gaining rapidly as a cattle feeding state. With growing population in the West, this trend will continue.

EARLY RUNS of stocker and feeder cattle have been under last year's totals. Good range conditions were probably the reason. However, another big cattle feeding year is expected to develop.

EGG PRICES should hold up better than they did last year all thru the fall and winter. Pullet numbers are down sharply. And old hens held over will probably not do much from now on.

GRASS CATTLE available in the fall are always more than feeders can use. Packers take the balance for slaughter. So price of feeder cattle is determind by how hard farmers bid against packers, or packers bid against farmers. Feeders will be better off if they let the packers have part of the grass cattle. Then they'll get feeder cattle cheaper and supply of fat cattle will be smaller during the year ahead.

2 WAYS TO WORK MORE ACRES PER GALLON

GASOLINE, LP GAS OR TRACTOR FUEL ENGINES

1 for fuel stretching 3-plow power

MINNEAPOLIS MOLINE MODERN MACHINERY

ZB TRACTOR

THREE FRONT ENDS

DUAL SINGLE ADJUSTABLE

Step up your power with this husky 3-plow ZB tractor and see how farming costs drop! You choose gasoline, LP gas or tractor fuel engines—each factory-equipped to get every penny's worth of power out of every gallon of fuel you use. There's a complete line of matched MM machines for the ZB to let you tackle every job with time-saving 3-plow capacity.

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UB TRACTOR

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MINNEAPOLIS-MOLINE

MINNEAPOLIS 1, MINNESOTA

THE TANK TRUCK

Equipment sings sweet up on "Mockingbird Hill"

(Left) ELIMINATING TROUBLE *is Farmer Taylor with a grease gun loaded with Conoco Super Lube. "Saves me plenty on repair work," says Mr. Taylor.*

(Above) TIME OUT! *Homer and sheep dog take a welcome "breather" from heavy work schedules at "Mockingbird Hill," Homer's 700-acre farm.*

Two things Ex-County Commissioner Homer Taylor likes to boost are the fine Conoco petroleum products that help keep his farm equipment on the job, and his 700-acre farm, "Mockingbird Hill," located in Justin, Texas. These days, with 350 prime acres under cultivation, Homer has pasture enough to carry 40 head of Whiteface cattle and 150 head of Ramoulett sheep—and carry 'em well!

To help keep work schedules humming, Homer makes fine use of 3 tractors, a baler, a loader, a combine and various trucks. And to keep them running right *and* longer, they're cared for 100% with Conoco products!

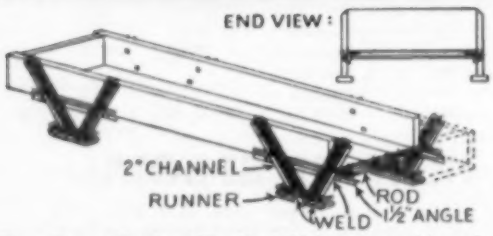
"Conoco products save me real money," states Homer, "because I now have no more mechanical trouble due to faulty lubrication. In addition, I get much more work done with the time that Conoco Super Motor Oil and Conoco Super Lube save me on repair work. I won't use anything but Conoco Gasoline, Motor Oil and Lubricant. I find that it just doesn't pay!"

Your Conoco Man will be glad to prove that dependable Conoco products are the best going—for you and your equipment. Why not give him a call *today?* He'll be glad to help you—in the many ways he can!

Conquer both major causes of engine wear with New Conoco Super Motor Oil!

To conquer both friction and acid wear, America's first *Double-Duty* motor oil contains two exclusive discoveries. **Oil-Plating*** guards against friction by plating a tough film of lubricant to metal parts. **Oil-Cleansing** checks acid wear by neutralizing acids . . . by rust-proofing your engine . . . and by holding dirt, dust and refuse in suspension. Order New Conoco Super Motor Oil from your Conoco Man today!

Crackless Feed Bunk



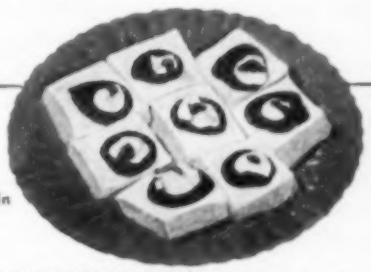
From Ernest Hardy of Thedford, Nebr., comes this real money-saver. Weld runners to channel legs and angle iron inside of legs. Bunk bottom rests on angle iron. Use threaded ⅝" rod underneath. Place near each end through angle iron. Tighten rod nuts to close cracks. Pull with tractor or pickup.

Saws For Ideas!

Like to get a D-15, Henry Disston Hand Saw, worth $10.25 *free?* Send original ideas to *The Tank Truck*, Dept. L, Continental Oil Company, Ponca City, Oklahoma. If we use your idea, you get the saw. All ideas become the property of Continental Oil Company.

RUM PUDDING

by Mrs. Palmer Hansen, Scobey, Montana



- 3 egg yolks
- 10 tablespoons sugar
- 2 tablespoons rum (or vanilla)
- Small pinch of salt
- 1 tablespoon unflavored gelatin
- ¾ cup cold water
- 1 cup whipping cream

Beat eggs and sugar well, then add flavoring and salt. Soak gelatin in cold water, then dissolve over hot water and add to eggs. When mixture begins to thicken, add whipped cream. Stir well and set in refrigerator. Serve with sauce made from juice poured off top of can of raspberries. Thicken juice with small amount of cornstarch and cool. Top with small spoon of whipped cream.

SHEARS FOR RECIPES! Send your favorite recipe to Mrs. Annie Lee Wheeler, Dept. L, Conoco Cafeteria, Ponca City, Oklahoma. For every recipe published, we'll award a pair of Wiss Pinking Shears, worth $8.95. Recipes become the property of Continental Oil Company.

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Regardless of make or year, your car will benefit from Conoco Super Gasoline with TCP—*the greatest gasoline development in 31 years!* After two tankfuls, you should be getting up to 15% more power, better gas mileage, longer spark-plug life, and all the benefits of an engine tune-up. That's the story over 8 million TCP users have been telling us. Prove it yourself by getting Conoco Super Gasoline with TCP *today!*

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- Conoco Diesel Fuel
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- Conoco Transmission Oil
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- Conoco Anti-Freezes

CONOCO

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